NUMBERS & ODDITIES

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-::: N&O #45 January 2002 :::-

Wow, I have blisters on my fingers. So much info to digest and type out this month. Great! Keep that info coming, people. I really appreciate it. Don't forget to check the N&O website for the Newsletter edition of N&O which will include part of the Al Qaeda Manual, intelligence news, and over a thousand numbers logs.

What's inside? N&O covers of course E10 who has been very active with lots of odd id's and we have a new "PIP" station wandering about. Beside the usual info about the various numbers stations and military stations, I also included an article from March 2000 about MILF, the Moro Islamic Liberation Front.

Enjoy this edition of N&O and please, keep sending your logs and info.

-0-0-0-0-0-0-0-0-0-0-

* VOICE STATIONS *

::: LINCOLNSHIRE POACHER [E03]

An Al Kruse special this time. Al compiled the id's and the current E03 schedules. Thanks for your help, Al. Much appreciated.

Day	UTC	Frequencies		
Sun	12	16084	15682	14487
	13	16084	15682	14487
	14	15682	14487	11545
	15	13375	12603	11545
	16	11545	10426	8464
	17	13375	12603	11545
	18	12603	9251	7337
	19	11545	9251	6959
	20	12603	10426	8464

	21	9251	6959	5746
	22	8464	6485	5422
Mon	12	16084	15682	14487
	13	16084	15682	14487
	14	14487	12603	10426
	15	15682	13375	11545
	16	13375	12603	11545
	17	11545	8464	6959
	18	12603	9251	7337
	19	12603	9251	7337
	20	11545	9251	6959
	21	11545	9251	7887
	22	11545	10426	6959
Tue	12	16084	15682	14487
	13	16084	15682	14487
	14	16314	14487	12603
	15	10426	8464	7755
	16	15682	13375	11545
	17	13375	12603	11545
	18	9251	6959	5746
	19	11545	9251	6959
	20	12603	9251	7337
	21	12603	9251	7337
	22	12603	10426	8464
Wed	12	16084	15682	14487
	13	16084	15682	14487
	14	20707	19452	18233
	15	16084	14487	11545
	16	10426	7755	6485
	17	16475	14487	12603
	18	11545	9251	6959
	19	8464	6485	5746
	20	11545	9251	6959
	21	12603	9251	7337
	22	12603	9251	7337
Thu	12	16084	15682	14487
	13	16084	15682	14487
	14	16084	15682	14487
	15	19452	17417	16084
	16	14487	12603	8464
	17	8464	6485	5422
	18	16475	14487	12603
	19	11545	9251	6959
	20	11545	9251	6959

```
     21     9251     6959     5746
     22    12603     9251     7337

Fri  12    16084    15682    14487
     13    16084    15682    14487
     14    16084    15682    14487
     15    13375    12603    11545
     16    16084    14487    12603
     17    16084    13375    11545
     18     8464     6485     5422
     19    15682    13375    11545
     20    11545     9251     6959
     21    11545     9251     6959
     22     9251     6959     5746

Sat  12    16084    15682    14487
     13    16084    15682    14487
     14    14487    11545    10426
     15    13375    12603    11545
     16    13375    12603    11545
     17    15682    13375    11545
     18    16084    13375    11545
     19     8464     6485     5422
     20    11545    10426     6900
     21    11545     9251     6959
     22    11545     9251     6959
```

E03's id's in January. First half of the month.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	07324	07324	07324	07324	07324	07324	07324	1200
1300	37739	37739	37739	37739	37739	37739	37739	1300
1400	67152	18163	85587	63403	07324	62926	97442	1400
1500	97442	67152	18163	85587	63403	07324	28315	1500
1600	28315	97442	67152	18163	85587	63403	62926	1600
1700	62926	28315	97442	67152	18163	85587	07324	1700
1800	07324	62926	28315	97442	67152	18163	63403	1800
1900	63403	37739	62926	37739	97442	67152	37739	1900
2000	37739	07324	37739	28315	37739	97442	85587	2000
2100	85587	63403	07324	62926	28315	37739	18163	2100
2200	18163	85587	63403	07324	62926	28315	67152	2200

Second half of the month.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	98340	98340	98340	98340	98340	98340	98340	1200
1300	32149	32149	32149	32149	32149	32149	32149	1300
1400	97561	04152	56671	99689	98340	76722	78098	1400

1500	78098	97561	04152	56671	99689	98340	56646	1500
1600	56646	78098	97561	04152	56671	99689	76722	1600
1700	76722	56646	78098	97561	04152	56671	98340	1700
1800	98340	76722	56646	78098	97561	04152	99689	1800
1900	99689	32149	76722	32149	78098	97561	32149	1900
2000	32149	98340	32149	56646	32149	78098	56671	2000
2100	56671	99689	98340	76722	56646	32149	04152	2100
2200	04152	56671	99689	98340	76722	56646	97561	2200

<<<<<>>>>>

::: CHERRY RIPE [E04 / E03a]

Cherry Ripe's transmissions are most likely beamed to China and/or other countries in the Far East. The station transmits from Guam and has a morning and evening schedule. The schedule for the Far Eastern evenings starts at 1000 UTC and continues at 1100, 1200 and 1300 UTC. The morning schedule starts at 2200 UTC and continues at 2300, 0000 and 0100 UTC. Here is their current schedule.

UTC	frequencies	UTC	frequencies
1000	20474 // 23461	2200	18864 // 24644
1100	18864 // 23461	2300	18864 // 21866
1200	18864 // 23461	0000	18864 // 21866
1300	18864 // 21866	0100	19844 // 21866

Thanks for the additions, Tomonori.

<<<<<>>>>>

::: E07

Gert sent this update to ENIGMA:
"E07 can also be heard on Fridays at 0610, 0630, 0650 UTC. Frequencies in December were 6934, 8103, 9368 kHz; a new slot? So, now there is a Mon/Wed 2100/20/40 UTC slot and a Wed/Fri 0610/30/50 UTC slot. The frequencies change each month. Is the Mon 0600/20/40 UTC slot still in use??"

If anyone has more info about the E07 schedules, please write!

<<<<<>>>>>

::: ISRAELI INTELLIGENCE [E10]

It has been a very interesting month for E10 monitors. Lots of odd id's were heard during a couple of days. I wonder if this was an exercise or

for real.....

Tomonori, Adachi, Takashi, thanks for being my ears in the Far East and thanks to all you WUNderful people for chasing the E10 oddities.

So, what have we heard since Christmas?

Call	date	frequency
ABC	various	6428
ART1	4 Jan	5435, 6986
HNC	unknown	unknown
HNCG	7 Jan	6575
SYN1OZ2	27 Dec	6912
SYN24	28 Dec	6912
VLB6	19 Jan	5170, 6930
VLB8	20 Jan	5170
VLB22	20 Jan	5170
KPA2Z3B	17 Jan	6912
KPA6	20 Jan	4780, 6912
KPA8	20 Jan	6912
KPA22	21 Jan	6912
KPA23	20 Jan	6912
MIW6	21 Jan	3270, 4165, 5230
MIW8	22 Jan	5230
MIW22	22 Jan	4165
MIW23	21 Jan	4165, 5230, 6930

I discussed E10 with Tomonori who is a keen monitor in Japan. We talked about ABC and the fact that a number of calls switch from one frequency to the other. The latter was new to me, so thanks again for the tip, Tomonori san.

Who/what is "ABC"? It was suggested that this call is used for test transmissions. However, it seems to be quite often on the air, always on the same frequency, and always at the same time. There is one strange thing about ABC; no-one has ever heard a message or string. Just "ABC" is being transmitted. This fact could indicate that ABC is indeed a test call. The current frequency is 6428 kHz. Before December, also 7605 and 13555 kHz were used. The time slot is between 1400 and 1700 UTC.

ABC logs on 6428 kHz: 28 Nov, 4, 16, 24, 25, 31 Dec, 3, 8 and 9 Jan. ABC was also heard on 17 Oct on 7605//13555 kHz.

CIO, KPA, MIW, SYN and VLB regularly change frequencies. This only happens when there are no messages, in other words when suffix "2" is being sent (KPA2, SYN2, etc). The following changes were noted lately:

  3640 kHz: SYN -> KPA
  5170 kHz: KPA -> VLB
  5230 kHz: VLB -> MIW
  6912 kHz: KPA -> SYN
  7605 kHz: VLB -> CIO
  9270 kHz: -> VLB

The increased E10 activity in January triggered the interest of a number of new monitors. One of the questions that I received was about the format. This is the full transcription of a E10 transmission to "ULX" to give you an idea what to look for. The station uses a female synthesized voice.

"ULX" repeated for 5 minutes
message message
group 32 group 32
text text
MHBGN ZNTNO BOOHB BGJTP HKPHZ SXYHQ VRHOW UOXCT QPDRE ZTVYX
JNUDI AXXIL WVPKV IJROB IHPPL USSUK CKQGS USDHS SMLLM JSHNF
TXWJW OYDHQ FOVEK PFQKI EKVTD YIAVP APRJU NEXQM UFLQA NNYGU
APPJN RMOEF
end of message
repeat repeat
message message
group 32 group 32
text text
MHBGN ZNTNO BOOHB BGJTP HKPHZ SXYHQ VRHOW UOXCT QPDRE ZTVYX
JNUDI AXXIL WVPKV IJROB IHPPL USSUK CKQGS USDHS SMLLM JSHNF
TXWJW OYDHQ FOVEK PFQKI EKVTD YIAVP APRJU NEXQM UFLQA NNYGU
APPJN RMOEF
end of message
end of transmission

<<<<<>>>>>

::: E11

E11 has changed its schedules and is now on Thursdays at 0800 UTC on 10125 kHz, and on Fridays at 0800 UTC on 11116 kHz. <info CR, Paul>

<<<<<>>>>>

::: E15

Except for several 14000 kHz logs, we haven't heard much from E15 during the past months. The station is however still active on more frequencies. The following logs came in from Leif, Mike, CR, and one of our friends in Central Europe.

Queen David Lewis (QDL) was heard on 22 Dec. at 0830 UTC on 14728 kHz.

```
   QDL QTC QTC NR3 NR3 GR01 GR01
   JDHAX ILJZM XRKGK LNIRI WJAKB DJKXH QPWQV LRPZW PNJDQ VIXLF
   AR AR
```

Otto Susan Susan (OSS) was up on 20 Jan. at 1237 UTC on 11170 kHz.

```
   OSS QTC QTC NR2 NR2 GR01 GR01
```

Frank Young Peter (FYP) came in with a good signal on 9 Dec. at 1400 UTC on 14000 kHz.

```
   FYP QTC QTC NR1 NR1 GR01 GR01
   AYWRL FPSGN GXJXD DUUYH QHBLU STNTV PGRKR YAEOC EUSHO JMKRQ
   AR AR
```

Mike caught them on a bad day (23 Dec.) and says "I couldn't have made this saga up. They did not have a very good day to say the least, I've heard minor problems in the past but this has to be the best, on the tech side. On the operating side the use of RITA rather than ROBERT, after going "live", followed by frantic op-chat has to be a classic."

Sunday, 23 Dec. 2001, 1055-1130 UTC, 18000 kHz.
Calls: Nancy Adam Susan (NAS)
       Peter Adam Rita (PAR)
       Baker Edward Charlie (BEC)

1055 Carrier up
1058 2 short 1 kHz tones
1100 QRU x 6, very fast, oops, tape problem
1100 QRU x 1, very very slow & distorted
1106 QRU x ? varying speeds from very, very slow to very fast
      (Micky Mouse) tape rewound
1108 Tape played by "hand"!! Not very successful
1112 Tape rewound
1113 QRU x 2, very fast
1113 QRU x 2 varying followed by BEC x ? varying fast to very slow
1115 Rewind tape
1116 BEC x 33, almost OK but with extraneous noises. Whistles,
      op-chat, bangs & thumps, then all stop
1119 QRU x 13, rewind tape, QRU x 2
1120 BEC x 35, very slow

1123 QRU x 7, very slow rewind tape. 4 secs op-chat
1126 PAR x 5 + PA, rewind tape, went "LIVE" with Peter Adam RITA x 5,
      all stop
1128 5 secs frantic op-chat
1129 2 secs op-chat, pulled plug
1130 Carrier down

Mike continues his comments: "This must be the longest transmission ever made by E15, one must applaud their valiant efforts and devotion to duty, tears of laughter were running down my face by the end of this little episode."

Sunday, 23 Dec. 2001, 1628-1636 UTC, 6715 kHz. Call: Nancy Adam Susan

1628 Start. NAS x 30, QTC NR3 ???, CW & XJT QRM blocked it out
1631 NAS x 32, oops, tape again. QTC NR3 GR 01, more QRM
1636 Ends AR AR

Sunday, 23 Dec. 2001, 1730 UTC, 5834 kHz.

1730 QRU. Lots of QRM, channel cleared by 1740 UTC but E15 was gone.

<<<<<>>>>>

::: E25

"Hello E25. How are you? Haven't heard from you in ages. Please let us know if you are still up and running. Thanks!"

Wish it was that easy to get a confirmation :-)

Egyptian based E25 hasn't been reported since May last year. If anyone has some info about the whereabouts of the station, please write!

Robert Ryan-Silva <rob@ryan-silva.com> mentioned the station in his e-mail to the Spooks list recently:

"For three years until August of this year, I lived in Egypt and was cruising the dials there. When reports of first E15a and then E25 surfaced, I did not pay much attention until I saw speculation from Simon Mason that the signals might be of Egyptian origin. So I tuned in, and recorded the broadcasts pretty regularly for a while.

The broadcasts came in very clearly from Cairo, to the point where I could hear the announcer shuffling papers and hitting the table. Early E25 broadcasts started with about ten minutes of an Um al-Kalthoum song. Um al-Kalthoum is an iconic Egyptian singer, and the intent here seems to have been to identify the broadcast as Egyptian. The song was

different each time, and was played for shorter and shorter periods and ultimately dropped entirely. The accent of the announcer is clearly Arabic ("rebeet" for "repeat," etc.). It all seems to point to an Egyptian source for the broadcasts.

The broadcasts were pretty amateurish and done manually. There are at least two distinct voices on the recordings I made, and probably more. The series 1111 occurs at the beginning of more than one broadcast. I found the timing of the broadcasts odd. They occurred in the middle of the afternoon local time. The obvious target, Israel, is in the same time zone as Egypt. Mid-afternoon would seem to be an awkward time to be copying numbers stations. (It was for me -I had to set up an elaborate system of timers and voice-activated recorders.) At the time, I did not want to say anything on the list because the Egyptians are hypersensitive about spies, and the security services are pretty omnipresent. I did not want to cause any problems for myself or the organization I worked for. But I have now left Egypt and all my personal effects have arrived here, so now it can be told.

I've put up a couple of E25 recordings at Muzak for Anoraks:
http://www.ryan-silva.com/muzak

The files are large. Let me know if you have any trouble with them; I confess I did not listen to the MP3s all the way through. I have many, many more; if people are really interested I can see if I can find somewhere online to post them. With files this size finding a place to host them is nontrivial. -Rob"

Don't know what to looks for? Here is the format description from Simon's page and be sure to check Rob's website for sound samples.

- Format:
The transmission starts with an Arabic musical interlude lasting about 6 minutes. Next the male announcer repeats a series of forty 3 figure groups for 3 mins 45 secs. This is followed by "Message, Message, Message" and the announcer sends a series of 4FGs. "Repeat, Repeat, Repeat" is then sent and the message is repeated. Finally, the announcer sends a 3F identifier and the group count before signing off with "End of Transmission".

- Sample:
Musical Interlude (6 mins)
372 244 372 244 244 244 244 244 244 244 244 244 244 244 244 244
244 244 244 244 244 244 244 244 244 244 244 244 244 244 244 244
244 244 244 244 838 838 838 838 838
Message, Message, Message
1111 5191 3310 4397 7443 8970 3073 2874 3316 9804 1953 4668 7456
4017 1038 2841 3432 2059 2310

Repeat, Repeat, Repeat
1111 5191 3310 4397 7443 8970 3073 2874 3316 9804 1953 4668 7456
4017 1038 2841 3432 2059 2310
End of Message
247 20 247 20 247 20 247 20 247 20 247 20 247 20 247 20 247 20 247 20
End of Transmission

<<<<<>>>>>

::: E18

E18 was on 9 Jan. up at 2245 UTC on 5130 kHz.
<info: Gert/ENIGMA>

<<<<<>>>>>

::: G22

Gert reports that he has heard G22 on Thursday, 20 Dec. at 2300 UTC on 4014 kHz. He also copied the station on Thursday 17 Jan. on 4031 kHz at 2300 UTC with 186 - nr222 gc20 = 22256. <info: Gert/ENIGMA>

<<<<<>>>>>

::: S04

S04 was Monday, 7 Jan. and Tuesday, 8 Jan. at 2245 UTC on 3373 kHz.
<info: Gert/ENIGMA>

<<<<<>>>>>

::: S11a

Tentative schedules for S11a:
    Monday   0800 UTC, 8186 kHz
    Wednesday 1015 UTC, 8186 kHz
    Thursday 0745 UTC, 10620 kHz, 1045 UTC 9950 kHz

S11a reports for January:
    14-1 0800 8186 976/127
    16-1 1000 8186 249 groups
    17-1 0745 10620 136 groups
    17-1 1045 9950
    24-1 1045 9950 976/00
    24-1 0948 9130 see below

I don't know if the one that I copied also belongs to a fixed sked. I

stumbled over it when I was looking for an ALE signal on 9130 kHz on 24 Jan. At 0925 UTC this came up: VVV VVV VVV (ca 2 mins) /000. This was a M03 test transmission and when I revisited the frequency at 0948 UTC I just heard the final part of a S11a transmission.

Note:
"976" was an id used by M03. It is strange now the sked has changed over to voice, that it is sending messages. When it was morse it was always a null message.

<thanks for your help, CR>

<<<<<>>>>>

::: S17c

What happened to S17c? Hardly any logs this month. A number of you have been looking for the station on a lot of frequencies but so far reports are scarce. S17c was heard on 3 and 5 Jan. at 1250 UTC on 9165 kHz.

<<<<<>>>>>

::: THE BUZZER [S28]

Jan Michalski reports voice traffic on 3-11-2001, between 1040 and 1120 UTC: long pauses (no modulation), "buzzer" with strong background noise, multiple insertions of 1000 Hz tone, and conversation: [male voice, in Russian] "Ya - 143. Nepoluchayu generatora"; [female voice] "Idyot takaya rabota ot apparatnoy". ("I'm 143rd. I don't receive the oscillator"; "That's what the 'Apparatnaya' is sending")

<info: http://www.geocities.com/uvb76/ >

<<<<<>>>>>

::: V24

V24 schedules compiled by Takushi Ochiai

No.	DAY	UTC	Frequency	Song
007	05,06,21,22	1600	4600	Seoule mojong
461	09,25	1400	5715(6215)	Seoule changa
1346	16,17	1400	5715	Sarang
2133	11,27,28	1400	6215	Chalmot Mannam
2255	7,8,25,26	1600	5450	Paktal Koge
2345	4,18,19	1400	6215	Seoule Mojong

2385	4	1400	6215		Mojong
2626	5,17	1500	6215		Sarange Miro
3250	21	1600	5715		Poli Bat
3535	10,11,26,28	1500	6215		???
3825	5,6,19,20	1600	5715		Sarange Miro
4545	19	1500	6215		Seonguja
5535	9,10,19,20	1530	6215	*)	Kim Ilsung Changune Norae
6635	9,10,19,20	1530	6215	*)	Kim Ilsung Changune Norae
????	10	1430	5550		???

*) "5535" or "6635" are both used on this schedule

<<<<<>>>>>

::: UNID

7070 kHz, date and time unknown, Russian male calling "731"

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATIONS *

Lots of spy and military morse numbers reports reached me this month. A warm "thank you" to all who contributed. CR, thanks for the tips and help!

::: M01

M01b is less active than it used to be. They only have 3 transmissions left, on Monday at 2110 UTC on 5063 kHz, Thursday at 2132 UTC on 4991 kHz, and Friday at 2202 UTC on 4505 kHz. The same message is being sent on each sked.

<<<<<>>>>>

::: M03

I copied the station on 9130 kHz on 24 Jan. at 0925 UTC, with a test transmission just before the start of S11a:

"VVV VVV VVV" for 2 mins. Then "/000" (short zero's).

CR tells me that he heard M03 on the 24th at 1030 UTC on 9950 kHz with "214/00"

<<<<<>>>>>

::: M10

"M10 has made a lot of frequency and id changed lately. All of the usual skeds have changed frequency, and most of them have different id's.", says CR. "It has a new sked at 2100 UTC on 4007 kHz and the 1720 UTC one has moved from 7745 to 4958 kHz."

I mentioned this one last month and labeled it M10. This is however M23: 10110 kHz, 0233 UTC, CW numbers: 555 555 555 for about 10 minutes.

- Sample:
Transcript of 1720 UTC, 5 January 2002, on 7745 kHz. Repeated on 6 January, same time and frequency. The 1720 UTC transmission has now moved to 4958 kHz.

555 555 555 186 186 186 29 45T 45T 45T 34 (repeated)

81 81 29 29 = =
2TT44 2TT44 95566 95566 45894 45894 54994 54994 96593 96593
54419 54419 62974 62974 11442 11442 713T4 713T4 75236 75236
48168 48168 52768 52768 6T916 6T916 72T25 72T25 3T2T5 3T2T5
T2347 T2347 65441 65441 3T281 3T281 94767 94767 89436 89436
89469 89469 558T2 558T2 85154 85154 51359 51359 59985 59985
18191 18191 36T64 36T64 5TTT5 5TTT5 24576 24576 = =
81 81 29 29
45T 45T 45T
91 91 34 34 = =
24367 24367 421T4 421T4 573T5 573T5 31841 31841 29688 29688
51541 51541 62T37 62T37 41342 41342 5T638 5T638 63648 63648
93T71 93T71 27748 27748 37188 37188 65437 65437 52888 52888
73274 73274 T6671 T6671 2T632 2T632 7T436 7T436 T6755 T6755
13718 13718 57258 57258 532TT 532TT 62349 62349 7T575 7T575
37478 37478 17286 17286 69635 69635 21485 21485 14T78 14T78
83636 83636 15986 15986 71796 71796 11438 11438 = =
91 91 34 34
T T T

<<<<<>>>>>

::: M12

Igor heard a possible M12 transmission on 7960 kHz, 0003 UTC, 21 Dec 2001: "684 684 684 000"

I copied this on 24 Jan. at 2000 UTC on 5255 kHz: "529 529 529 000"

<<<<<>>>>>

::: M13

My January M13 logs; it is still very much alive as you can see.

```
 4473   id 411  2130   06-01-2002   Sun
 6378   id 517  2000   07-01-2002   Mon
 5062   id 261  2100   07-01-2002   Mon
 3824   id 378  2200   07-01-2002   Mon
 6382   id 714  2100   10-01-2002   Thu
 3244   id 438  2200   12-01-2002   Sat M13b
 4365   id 417  2000   13-01-2002   Sun
 3244   id 438  2200   13-01-2002   Sun M13b
 4365   id 417  2000   14-01-2002   Mon
 5778   id 272  2200   15-01-2002   Tue
 6574   id 253  2106   17-01-2002   Thu
 4473   id 411  2131   19-01-2002   Sat
 3824   id 378  2200   19-01-2002   Sat
 6378   id 261  2100   20-01-2002   Sun
 4473   id 411  2130   20-01-2002   Sun
 6378   id 517  2100   21-01-2002   Mon
 5062   id 261  2100   21-01-2002   Mon
 3824   id 378  2200   21-01-2002   Mon
 4073   id 346  2200   23-01-2002   Wed
 6382   id 714  2100   24-01-2002   Thu
 3244   id 438  2200   26-01-2002   Sat M13b
 4365   id 417  2000   27-01-2002   Sun
 3244   id 438  2200   27-01-2002   Sun M13b  (harmonic on 6488)
 5274.5 id 735  2100   29-01-2002   Tue M13a
```

Transcript of the latter:

```
735 735 735 ttt 735 735 735 ttt 735 735 735 ttt = 21521 =
25784 62281 24721 63178 158t9 38631 6t358 t2961 3976t 17753 33167
17t72 26925 3t33t 63663 59449 t5742 13767 2t951 t7768 47743 =
735 735 735 ttt 735 735 735 ttt 735 735 735 ttt = 21521 =
25784 62281 24721 63178 158t9 38631 6t358 t2961 3976t 17753 33167
17t72 26925 3t33t 63663 59449 t5742 13767 2t951 t7768 47743 = ttt
```

<<<<<>>>>>

::: M14

I haven't seen many logs of M14 lately, so I was glad that Igor sent me one; 18566 kHz, 0940 UTC, 26 Dec 2001.

"495" with two messages:

```
716 716 155 155 = =
230 230 187 187 = =
```

<<<<<>>>>>

::: M21

Active as ever, M21 was reported on the following frequencies this month: 2317, 4631.5, 4071.5, 4951,5, 5372, 5873, 5921.5 kHz.

Sample messages:

=992156??0?????	=13620171329656
=992158??0?????	=23620901090800
=136411725835t8	=9922t9??t?????
=136417652214tt	=13t42172573514
=13642172591218	=13643175688718
=1364117651342t	=99222t??t?????
=236439tt5t7t2t	=236439t1t7tt3t
=992259??t?????	=4364536454????

<<<<<>>>>>

::: M23

M23 has been on for several evenings around 18 December at 1900 on 6794. On the 17th it just sent 11111 for 25 minutes.

I mentioned this one in N&O#44 and labeled it M10. This is however M23: 10110 kHz, 0233 UTC, CW numbers: 555 555 555 for about 10 minutes.

Another "555" transmission of M23 had a sked at 2030 UTC on 6980 kHz but this one seems to have ended. Another one at 1800 UTC on 19280 kHz is reportedly still sending.

Igor heard the station between 23 and 27 December on these frequencies and times:

7630 kHz	2138 UTC	(555)
7769 kHz	2209 UTC	(555)
7980 kHz	2038 UTC	(555)
8940 kHz	0407 UTC	(555)
10660 kHz	1633 UTC	(000)
11218 kHz	1638 UTC	(555)
14749 kHz	1501 UTC	(310)
16938 kHz	1437 UTC	(310)

<<<<<>>>>>

::: M39

M39 was finally heard again on 17 Jan. at 1000 UTC on 7540 kHz. In between each separate call a lot of dashes were sent for about 1 min.

247x3 47266x3 Sent 5 times
247x3 72963x3 Sent 5 times
097x3 73699x3 Sent 5 times
Back on at 1030
097x3 73699x3 Sent 5 times
097x3 87747x3 Sent 5 times
097x3 16961x3 Sent 5 times
097x3 84001x3 Sent 5 times
Ended 1045

<info: CR>

<<<<<>>>>>

::: M40

Another log from Igor; also reported by our Japanese friends.

3843 kHz, 1403 UTC, 13 Dec 2001:

    vvv cq615,198,223
    vvv cq198 cq198 cq198
    hr hr 32 32 = =
    84376 43445 81354 80869 40638 84479 58118 11326 90664 12747
    40545 02990 73201 98107 44595 61399 71805 33826 45082 81001
    67303 99697 23107 23264 67299 11947 90959 32282 17095 06276
    41592 29934 ar ar
    rpt rpt
    vvv cq198 cq198 cq198
    hr hr 32 32 = =
    84376 43445 81354 80869 40638 84479 58118 11326 90664 12747
    40545 02990 73201 98107 44595 61399 71805 33826 45082 81001
    67303 99697 23107 23264 67299 11947 90959 32282 17095 06276
    41592 29934 ar ar

    vvv cq233 cq233 cq233
    hr hr 34 34 = =
    73268 54367 69010 40119 82450 31412 97759 68143 76422 75072
    59219 24868 91109 69346 47823 70260 45662 20902 12513 63384
    57662 47634 13303 82624 65016 10450 64124 23561 87152 89520
    04694 19633 03979 89291 ar ar
    rpt rpt
    vvv cq233 cq233 cq233
    hr hr 34 34 = =
    73268 54367 69010 40119 82450 31412 97759 68143 76422 75072
    59219 24868 91109 69346 47823 70260 45662 20902 12513 63384
    57662 47634 13303 82624 65016 10450 64124 23561 87152 89520

04694 19633 03979 89291 ar ar
sk sk

<<<<<>>>>>

::: MX - CLUSTER BEACONS & CHANNEL MARKERS

I copied Kaliningrad on 9 January on 4043 kHz at 1845 UTC; "P" was interrupted by a RDL flash message at 1850 UTC (XXX XXX RDL RDL RDL etc) and a short msg from RDL at 1857: RDL RDL RID 93199 10296+ Then unreadable RTTY at 1907, then "P" again, followed by again a short RDL message and back to "P" again. S/off at 1915 UTC.
"P" was also on 4079 and 7038.8 kHz.

Pile reports marker "N" on 2813 kHz, while "V" was heard on 3658 and 21070.6 kHz.

<<<<<>>>>>

::: UNID AND MILITARY STATIONS

CZECH / SLOVAK MILITARY (S8BD, 4396, 2362, 5302 kHz)

- S8BD
This station used 2835, 3376, 3397, 4011, 4631 and 5132 kHz in January.

C6CP C6CP C6CP DE S8BD S8BD S8BD
QTC 81 20 32302 = 636 C6CP =
5FGs = S8BD

- 4396 kHz
The Slovak Military station in Zilina is still on the air on 4396 kHz. A typical message looks like this:

"QR2U QR2U QR2U = KP6F KP5F KP6F +"

Note that the callsigns change every now and then. Also noted in the past few months were:
NVKL NVKL NVKL = HKVH HKVH HKVH +
FCQR FCQR FCQR = A7KG A7KG A7KG +
J7XD J7XD J7XD = D3QK D3QK D3QK +

I parked my receiver on this frequency for over 40 hours and not one message was sent during this period, just the marker.

- 2362 kHz
2362 kHz has been occupied for over a year by the still unid military station from either the Czech or Slovak Republic. Unfortunately it

hasn't been heard since 21 Jan. Bad conditions? A new frequency? Or just vanished? The station transmits the callsign of the addressee and send messages at frequent intervals. I monitored it during a couple of nights. For further analyses, I also need a day time schedule -if it exists. If anyone can help, I would appreciate that very much.

The station transmits each hour a group of three messages. Always one 5FG message, one 5LG message, and one mixed 5FG/5LG message. The fact that it sends these three different formats, may indicate that it is a training station, I find it however difficult to believe that they only send during the evenings and nights. The last message that I copied in the morning was 25 and the next one was at 1600 and was number 26. Does it use another frequency and another schedule during the day, or is it really off the air?

- Format:
  XOSV XOSV XOSV DE XGW1 QTC
  65 20 15 2124 885 =XOSV=

  65   = message number
  20   = group count (always 20)
  15   = date
  2124 = time (UTC+1)
  885 = assigned command post

Here a couple of examples and the schedule that I copied.

U2XC marker
U2XC U2XC U2XC U2XC DE D3LA QTC 67 20 13 2104 680 = U2XC =
FMVNA EUHMH 37059 GIVCO YTSUY 37329 ZFITR HGYBC 37345 LXMAY VAKCW
92457 MKNYX WWLSQ 14502 FIHCZ VWDYR 03463 CODMR NTPRH = D3LA +
U2XC U2XC U2XC U2XC DE D3LA QTC 68 20 13 2108 680 = U2XC =
20341 70591 41278 47382 91390 37345 61450 92457 76759 91450 02358
70346 46448 83965 20179 81204 25452 83019 24240 62731 = D3LA +
U2XC marker

XOSV marker
XOSV XOSV DE XGW 1 QTC
64 20 15 2120 885 =XOSV=
BTZXJ BHDHY PXPRC RILSA NAEDR MLDHX OWLJN MSIUJ BGNPU DYEFH PQDBT
VTDYZ IPMAX EDYOP JSIXR OWPFH VINEZ RSTCX TADFHY EIMBF
= XGW1 +
X O S V
X O S V
X O S V
X O S V
X O S V
X O S V

X O S V
XOSV XOSV XOSV DE XGW1 QTC
65 20 15 2124 885 =XOSV=
BTZX T BHDHY 83106 SABNA DRFML 47991 DYZPI MAXIE 89893 LOWPF PVENE
74894 BFNAPH NHSGI 09374 TQBTK SBMPZ 13673 DIFVR QBIBC
= XGW1 +
XOSV marker

XOSV XOSV XOSV DE XGW1 QTC
66 20 15 2135 885 =XOSV=
18698 10618 84972 47291 05389 13953 73847 82149 ..7.9 74053 13673
20348 47172 .5794 97223 56970 34423 3204. .5797 46010 = XGW1 +

- Schedule (message nr / time UTC+1)

64 2120	65 2124	66 2135
67 2211	68 2213	69 2228
70 2351	71 2353	72 2356
01 0140	02 0142	03 0145
04 0148	05 0150	06 0153
07 0202	08 0206	09 0209
10 0349	11 0352	12 0356
13 0400	14 0404	15 0408
16 0532	17 0537	18 0545
19 0605	20 0610	21 0615
22 0702	23 0706	24 0709
25 0809		
26 1606	27 1608	

- 5302 kHz

Yet another member of this family. Active on 5302 kHz with a number of callsigns, including S5ZW, EMW3 and ADKZ. Message format differs slightly from the 2362 station.

PV6R PV6R PV6R de ADKZ ADKZ QTC
6 20 15 0928 = into 5 letter groups
Ends with "+" and transmits long zero's

<<<<<>>>>>

6776 kHz, 2323 UTC, 14 January. Heard by Day Watson. Also an Eastern Europe format: "OU6K 557 52 15 021 5 557 = 562 = PRUFA UOYQA" etc.

<<<<<>>>>>

The following one was on 9 Jan at 2206 UTC on 4039 kHz. It sent long zero's; lots of it as you can see :-) It was already in progress when

I found it. The transmission ended with "+" and a long dash "T".

50012 ..30. 32001 00001 00006 20000 00006 30080 00006 50012 00006
00006 40010 40010 00006 40090 000.. 0...2 00089 00002 00612 40009
00005 00612 00014 00006 00612 00011 .0102 00012 40010 + T

<<<<<>>>>>

3399 kHz, 2206 UTC, 19 December 2001. Probably a training transmission.

5LGs K QRV K
BK QSU K
BK RPT K
BK RPT AA 8 K
BK RPT AA 5 K
BK RPT
BK RPT AA 5 RPT AA 5 K
BK RPT AA 2 K
BK RPT AA 28 K
and that went on for about 10 more minutes

<<<<<>>>>>

3330.5 kHz, 2122-2133 UTC, 12 January

= 4988 44 K repeated every 2 mins from 2122-2134

msg at 2150

RRNP RRNP RRNP --.. N --..
951 951 13 77 followed by 5FGs. Ends with "K"

<<<<<>>>>>

3158 kHz, 1950 UTC, 27 December 2001. Hand keyed.

2027 2048 = 434 TR2F = VJHDG BK GCHDL RFXMCT VKKMP BVCMF DEZBR ARZOX
FTANQ DAXCU HBRBA LDYBJ YMVWF RHADB IUIGP BZNTX QEWGY GULGL YNZDG
VILON BGZNK = VJHDG 4 UMFRI K = VJHDG K

<<<<<>>>>>

The L9CC family was active as every on a number of frequencies:

"V CP17 CP17 CP17 DE L9CC L9CC"
  on 3533, 3545, 3548, 3551, 7027,7037, 7043, 7051, 7058,
  7060, 7064, 7073 kHz

"V MW3D MW3D MW3D DE 2SLC 2SLC"
  on 3330, 4400, 7074 kHz

"V BFR7 BFR7 BFR7 DE 4XML 4XML"
  on 3380, 5756 kHz

"V LA5H LA5H LA5H DE NH8T NH8T"
  on 4874, 5383 kHz

"V IBEH IBEh IBEH DE L4FC L4FC"
  on 6510 kHz

"V YELM YELM YELM DE FC1T FC1T"
  on 2331 kHz

<<<<<>>>>>

Igor checks in with an unid station on 12999 kHz, at 0840 UTC on
26 Dec 2001:

... 351 351 351 351 84
351 84
351 351 351 351 351 351 351 84
<pause>
long dash
<pause>
long dash

<<<<<>>>>>

From an anonymous dxer: 7035 kHz, call 423 followed by 5FGs

<<<<<>>>>>

And the last one from Igor: 5658 kHz, 0654 UTC, 27 Dec 2001. Chinese
military. 4FGs, cut numbers.

r ga r ga
ga
qsl 15t3 kk
rr ga qsp k
as
msg ga
msg nr msg nr491 ck99 93 1227 15t4 =
rr rmks = 3189 to 3379 = 7849 ar k
rrr = = = = = =
t5t6 3u7n 7dta 424t 5nat 7ua4 6t6d 66dt tt4d ttta t3d6 at54
t7ud 3an6 nd75 76a7 4nd7 u444 7743 7n36 356d 5nta d6d6 ut53

45u3 ta67 u5u6 dt7a ut43 nn3d u7un u3ta t74a 3n7a an63 5nt5
6dta 5d57 4a63 udu6 at67 6736 t54t 3656 a6a7 t54d nd5d da47
du5u 4nut unut d7an ud75 7tan 4u37 3adn 3d6n 5n35 47d4 7n6t
3ud4 a3nu 435n u44a a35a n537 n5ad d64u u3u6 utn4 ar ar ar ar

<<<<<>>>>>

Deka from Japan copied a Russian control station on 23 Dec 2001 at 1300 UTC.

"XXX XXX C6VX 41771 BEREKA 9552 4600 K"

The "XXX XXX" messages can be compared with the USAF EAMs. These flash messages can be heard on a large number of Russian (navy) frequencies. They are being sent to activate a specific tactical net, or to test response times of the called stations; things like that.

The callsigns used are sometimes the calls of a specific station, but more often a general callsign of the staff in Moscow or elsewhere. Examples: "RDL" is the general call of the Russian Navy HQ in Moscow; "WLHN" is a general call used by the staff in Moscow for flash messages to staff elsewhere in the country, or enroute (ships, trains, aircraft) Other callsigns target specific areas or units; e.g. the Baltic fleet, or all units in Siberia, etc.

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* OTHER MODES *

::: NEW "PIP" AND 3-TONE MARKER

The station first appeared on 24 Dec. on 3226.5 kHz, moved on 25 Dec. to 2232.5, then per 1 Jan. to 2200.5, on 21 Jan. to 3250.5 kHz, on 24 Jan. back to 2200.5, and on 28 Jan. to 2207.5 kHz. A very strong PSK signal probably caused the Pip to return to 2200.5 on 29 Jan.

The time signal sounds like an antique analog clockwork. There is no intelligent data in the time signal. No minute or hour markers, no id, just the second pip. When you listen carefully, you will notice that a number of pips sort of "hesitate". I checked the pip with DCF77 and noticed that it is completely in synch with DCF77. The modulation of both the pip and the 3-tone channel marker underneath is AM.

The signal is good 24 hours a day in Central and Western Europe. The signal strength reported during the afternoon in Holland, Germany, UK, Hungary, Finland and France, indicate that the signal must come from a location not far from here. First df's pointed towards the Eastern Mediterranean. Greece was suggested but the signal is not audible in

Greece during day time, so it must be closer to the West. It does not follow propagation conditions from Russia and farther east. Best guess so far is somewhere W.Europe. Reports are most welcome from any part of Europe. Please let me know when you heard it, how strong it was, and if you have df equipment, please tell me what the bearing is from your location.

<<<<<>>>>>

::: CHANNEL MARKERS

The well known channel markers are all currently active.
The buzzer (S28) on 4625 kHz
The pip (S30) on 3756 kHz
The "Squeaky Wheel" on 3828 kHz
The new pip and 3-tone channel marker (see above)

<<<<<>>>>>

::: XPH

Chris writes "I copied XPH last night (20 Dec) on 5388 kHz at 2300z. Is this part of a new sked?" So far, I haven't seen any other logs, Chris.

Morning sked: 0700 UTC on 14890 kHz, 0710 UTC on 15790 kHz, 0720 UTC on 16290 kHz.

The evening sked is expected to be at 2100 UTC on 7967 kHz, 2120 UTC on 6744 kHz, and 2140 UTC on 5395 kHz.

Unfortunately I have no frequencies for the 2110 skeds.

<<<<<>>>>>

::: M42

M42 activity in the Americas seems to be low these days. Don Schimmel (hi Don, long time no see!) writes in his "Radio Intrigue" column on DXING.COM <http://www.dxing.com/intrigue.htm> the following:

> "Although I had my receivers set on the frequencies used on the link, there were many schedules I did not hear. I don't know if the schedules were held or if the signals were being obliterated by some severe QRM. On 10 November there were no signals at the 1445 UTC sked but at 1504 the Cuba relay transmitter came up in FSK Morse and sent the ETFNJX TKAGAS sequence over and over. After several minutes

> of calling, he went down. I did not log any activity until
> 30 November at about 1404 UTC when I heard a station on
> 13519 kHz send a string of dits. The signal sounded like the
> field transmitter. At 1412 Cuba began sending the ETFNJX
> TKAGAS call-up and continued until about 1418. I left the
> receivers set up on the FAPSI frequencies of 16218 and 13519
> kHz and at 1436 a station on 13519 sent one call-up of WPC
> and nothing more. This latter transmission may not have been
> related to the FAPSI link but it sure sounded like the field
> transmitter."

As Don says, the Cuban relay is still active but Managua is very quiet these days. It goes without saying that reports from the American stations are more than welcome!!!

Moscow has moved its traffic to higher frequencies and it is quite possible that Cuba also abandoned the old frequencies in favour of new higher frequencies.

Bob wrote to Spooks about the apparent demise of the transmissions. As a reaction to Bob's remark, Leif sent the following comments to the list:

> "The M42/Fapsi stations are still there and the amount of
> activity has not dropped. They have however changed their
> operational habits a little. The automated broadcasts here in
> Europe have all vanished (identifiers: KUL/RAU/VKX etc.) but
> the individual point to point links between Moscow and its
> embassies are still present. I am sure this applies to the
> one way broadcasts originating from the Cuban relay as well.
>
> If you look at my logs on WUN, you will notice a wide variety
> of entries ranging around these stations. They may be a bit
> harder to identify these days, as there has been a shift from
> Baudot to the 32-tone MFSK mode known to Hoka users as Crowd36
> and a narrow band parallel tone PSK modem sounding somewhat
> like MT63. The traffic however seen on these MFSK (and probably
> the PSK) circuits is exactly the same as the one noted on the
> old Baudot links.
>
> You will see the same 11177/11166/11144 preambles followed by
> the individual link IDs. Even if the mode has changed, the
> contents are still the same -> 5 letter groups, 5 figure groups
> and on some links they have offline crypto which is not divided
> into 5LGs. Additionally they seem to have abandoned some of
> their old channels, as a result of the high solar activity. I
> have noticed that the EUR portion of the net has the tendency
> to use frequencies in the upper portion of the HF spectrum
> during daytime. So look for them in the 17-21 MHz range during

daylight hours."

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Mathias Kropf sent me the results of the annual Clandestine Activity Survey. These stations are often jammed and that makes it interesting for the oddities monitors.

-Press Release- 2001 Clandestine Activity Survey

During the year 2001 the activity of political clandestine stations broadcasting on shortwave has increased by 4.7% to 1432 weekly Broadcasting Hours (WBHs). After almost a decade of decreasing activity during the 1990s this is the second year of increased activity in a row.

Clandestine activity to Asian target areas has increased by 9.1% to 1045 WBHs, while activity on the African continent dropped by 7% to 211 WBHs. The activity to target areas on the American continent has remained unchanged at 176 WBHs.

The number of active target areas (countries) worldwide has increased by one to 21. Newly reactivated target areas are Vietnam (last previous activity in 1994), Cambodia (1997) and Nigeria (1998). On the other hand, Papua New Guinea and the Democratic Republic of Congo are thought to be no longer active.

The three most active target areas worldwide are Iraq with 367 WBHs (+8 when compared with last year), Korea DPR with 217 WBHs (unchanged) and Cuba with 162 WBHs (unchanged).

<<<<<>>>>>

Aero dxer Risto Hirvonen asks if anyone has information about the many Arabic voice stations in the aero bands. He mentions the following frequencies: 5491, 5566, 5588, 5660, 5663.5, 6530, 6640, 8840, 8844, 8866, 8881, 8895, 8900, 8905, 8950, 8954, 8979, 9005, 11269, 11325, 11360, and 13320 kHz. Risto says "Some of the traffic sounds like phone patches, but I also heard other formats."

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* MILF - MORO ISLAMIC LIBERATION FRONT *

The following appeared originally in WUN vol.6 #3 and #5

"Philippines - Military sends 2,000 more troops

against southern rebels.

The Philippine military deployed 2,000 more troops Friday in a southern province following an offensive by Muslim separatists that left at least 28 people dead and 29 others wounded, officials said. A shaky calm prevailed Friday in three towns in the province of Lanao del Norte as three battalions of army soldiers and a battalion of marines arrived to bolster the 500-strong security force already arrayed against the Moro Islamic Liberation Front (MILF) rebels. On Thursday, 15 rebels were killed.....''

The above was taken from a report from AFP on 17 March 2000. MILF is still very active in the southern part of the Philippines, and is hotter then ever now reports allegedly link them with Osama Bin Laden. Military intelligence officials claim that at least eighteen MILF members have trained for handling explosives in Afghanistan. As you may expect, MILF officials deny Al Qaeda connections.

MILF communications have been heard on shortwave by various dxers from Australasia. One of these dxers suggested an article about the MILF, so here we go...

::: Who, what, where and why?
The MILF is an Islamic liberation movement in the Bangsamoro homeland in Mindanao and the neighbouring islands. The Moroland (now known as "Southern Philippines") is composed of Mindanao island (the second largest island of the Philippine islands) Palawan, Basilan, the Sulu archipelago, and the neighbouring islands. The demand of the MILF is no less than an independent Moro Islamic State and until this is accomplished the Moro Jihad will continue.

The Philippines has had a long history of Moro rebellion during the past 445 years. Resistance to colonization was especially strong among the Muslim population of the Sulu Archipelago and southwestern Mindanao. Spanish control (1521-1898) over the Moros was never complete, and the Muslim struggle continued in the United States colonial era (1898-1946). The then following period until 1970, was relatively quiet but the Muslims never really accepted Manila as governor over the Moros which lead to a widespread conflict in the 1970s. Although the jihad is still going on, it is not as fierce as in the period 1970-1983.

The MILF was formed in 1977 when Hashim Salamat, supported by ethnic Maguindanaos from Mindanao, split from the Moro National Liberation

Front MNLF). The military strength of the MILF is unknown to me. The numbers from various sources differ too much to be reliable. Numbers given by Islamic sources are quite impressive:

* 120,000 men (six divisions) regular Islamic Armed Forces of which more than 80% are well armed
* at least 300,000 militiamen

Other sources state that the MILF forces declined from over 30000 in the mid-70s to some 15000 now.

::: The MILF on shortwave

Although not as frequent as in the past, the MILF are still using HF communications. Until 1997 their transmissions were regularly logged but the MILF is modernizing and they are gradually switching over to GSM and computerized communications via satellite.

Modes : USB and ARQ (mainly ARQ)
Callsign : Liberator
Frequencies: 7926.7, 7946.7, 7961.7, 7971.7, 11146.7 kHz
Language : American English (lots of military jargon)

Sitor is used between Sandakan and Camp Abu Bhakar. Frequencies are between 6 and 9 MHz. They use 150 Watts amateur mobile transceivers and it is very unlikely that one can receive these weak signals here in Europe. Their communication procedures are quite good and they are well aware of the fact that HF is cheaper than satellite but they use both and cellular as well. The location of Camp Abu Bhakar is precisely known however the Bladigarmen forces cannot attack them because MILF and Moro are too strong. Sandakan is their main logistics port for arms supply and the place has become very dangerous with too many illegal and/or criminal Philippine immigrants around town and on the coastline. The new road between Kuala Kinabalu and Sandakan is used for illegal arms transports from the illegal Philippine immigrants detention camp in Kuala Kinabalu, and Polis Sabah is unable or unwilling to stop the trade. The second logistics port is Tawau and there you have the Indonesians as well. They collect money for the fighting of the local people around Samarinda and Pontianak against the "transmigrasi" people from Java and Madura in particular. There are dozens of illegal boat trips daily between Tawau and Tarakan for arms and people (prostitutes) trade. Arrangements here are made via cellular radio. The situation in Indonesia has become so bad that the people from Kuching go shopping there on the weekend (the border is just 40 km away) and now there are three shopping flights per week to Pontianak. To fight the illegal immigrants there are roadblocks all around Kuching.

If you live in the region and hear these stations, please send us your logs.

Sources: newspaper articles and websites of FAS, Nida'ul Islam

magazine, AFP, Newsboy's Newsroom, Library of Congress' Country Studies, Real World Rescue, Joerg Klingenfuss, Charles Chenery, http://www.morojihad.com/milf.html, and of course the WUN archive.

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* INTELLIGENCE NEWS *

::: CHINA

The following is an excerpt of an article in the Washington Post.

"Somewhere on a military airfield north of Beijing, China's presidential aircraft, a new Boeing 767-300ER with all the trimmings, sits unused with parts of its innards torn out. Last October, days before its planned maiden voyage, Chinese military communications experts discovered numerous high-tech listening devices planted inside the plane, according to Chinese and Western sources, who said they had been told of this by Chinese military officers and aviation officials. The plane was grounded and has not been flown since it was delivered."

"The Chinese source said that, to date, 27 listening devices had been found, including devices in the presidential bathroom and in the headboard of the presidential bed. A Western executive and a Western diplomat said they had been told by Chinese aviation sources that the devices were highly sophisticated. The diplomat said they "had to be triggered by a satellite communication. In that sense, they were very advanced."

<<<<<>>>>>

::: RUSSIA

According to Cuban authorities Russia's SIGINT post at Lourdes has been shut down after almost 40 years of service. The naval base at Cam Ranh Bay in Vietnam will be closed shortly. There are rumours that Russia will open a new SIGINT post in North Korea.

<<<<<>>>>>

::: RUSSIA / UK

The Kommersant Business Daily reports that Russian President Vladimir Putin appeared on a joint press conference with British Prime Minister Tony Blair on 23 December. He announced the establishment of a joint Russian-British counter terrorism combat group comprised of officers from both countries' foreign intelligence services. The group will also

include Russian and British diplomats, as well as members of both countries' militaries.
<source: American Foreign Policy Council, Washington, DC>

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* AL QAEDA TRAINING MANUAL *

The Al Qaeda Training Manual was located by the Manchester (England) Metropolitan Police during a search of an Al Qaeda member's home. The manual was found in a computer file described as "the military series" related to the "Declaration of Jihad." The manual was translated into English and was introduced last year at the embassy bombing trial in New York. The U.S. Department of Justice is only providing a selected text from the manual because it does not want to aid in educating terrorists or encourage further acts of terrorism. The manual itself is not interesting for the radio hobbyist. I think however that part of the Communications chapter is nice to read. I skipped the face-to-face and paper communication part and only included the introduction and phone and wireless parts.

Introduction:
It is well known that in undercover operations, communication is the mainstay of the movement for rapid accomplishment. However, it is a double-edged sword: It can be to our advantage if we use it well and it can be a knife dug into our back if we do not consider and take the necessary security measures.

Communication Means:
The Military Organization in any Islamic group can, with its modest capabilities, use the following means:
1. The telephone,
2. Meeting in-person,
3. Messenger,
4. Letters,
5. Some modern devices, such as the facsimile and wireless communication.

Communication may be within the county, state,or even the country, in which case it is called local communication. When it extends expanded between countries, it is then called international communication.

Secret Communication is Limited to the Following Types:
Common, standby, alarm;

1. Common Communication:
   It is a communication between two members of the Organization without being monitored by the security apparatus opposing the

Organization. The common communication should be done under a certain cover and after inspecting the surveillance situation [by the enemy].
2. Standby Communication:
   This replaces common communication when one of the two parties is unable to communicate with the other for some reason.
3. Alarm Communication:
   This is used when the opposing security apparatus discovers an undercover activity or some undercover members. Based on this communication, the activity is stopped 'for a while,all matters related to the activity are abandoned, and the Organization's members are hidden from the security personnel.

Method of Communication Among Members of the Organization:

1. Communication about undercover activity should be done using a good cover; it should also be quick, explicit, and pertinent. That is, just for talking only.
2. Prior to contacting his members, the commander of the cell [*] should agree with each of them separately (the cell members should never meet all in one place and should not know one another) on a manner and means of communication with each other. Likewise, the chief of the Organization should [use a similar technique] with the branch commanders.
3. A higher-ranking commander determines the type and method of communication with lower-ranking leaders.

[*] Cell or cluster methods should be adopted by the Organization. It should be composed of many cells whose members do not know one another, so that if a cell member is caught the other cells would not be affected, and work would proceed normally.

First Means: The Telephone:
Because of significant technological advances, security measures for monitoring the telephone and broadcasting equipment have increased. Monitoring may be done by installing a secondary line or wireless broadcasting device on a telephone that relays the calls to a remote location. That is why the Organization takes security measures among its members who use this means of communication (the telephone).

1. Communication should be carried out from public places. One should select telephones that are less suspicious to the security apparatus and are more difficult to monitor. It is preferable to use telephones in booths and on main streets.
2. Conversation should be coded or in general terms so as not to alert the person monitoring [the telephone].
3. Periodically examining the telephone wire and the receiver.
4. Telephone numbers should be memorized and not recorded. If

the brother has to write them, he should do so using a code so they do not appear as telephone numbers (figures from a shopping list, etc.)

5. The telephone caller and person called should mention some words or sentences prior to bringing up the intended subject. The brother who is calling may mis dial one of the digits and actually call someone else. The person called may claim that the call is for him, and the calling brother may start telling him work-related issues and reveal many things because of a minor error.
6. In telephone conversations about undercover work, the voice should be changed and distorted.
7. When feasible, it is preferable to change telephone lines to allow direct access to local and international calls. That and proper cover facilitate communications and provide security protection not available when the central telephone station in the presence of many employees is used.
8. When a telephone [line] is identified [by the security apparatus], the command and all parties who were using it should be notified as soon as possible in order to take appropriate measures.
9. When the command is certain that a particular telephone [line] is being monitored, it can exploit it by providing information that misleads the enemy and benefits the work plan.
10. If the Organization manages to obtain jamming devices, it should use them immediately.

Fifth Means: Facsimile and Wireless:
Considering its modest capabilities and the pursuit by the security apparatus of its members and forces, the Islamic Military Organization cannot obtain these devices. In case the Organization is able to obtain them, firm security measures should be taken to secure communication between the members in the country and the command outside. These measures are:

1. The duration of transmission should not exceed five minutes in order to prevent the enemy from pinpointing the device location.
2. The device should be placed in a location with high wireless frequency, such as close to a TV station, embassies, and consulates in order to prevent the enemy from identifying its location.
3. The brother, using the wireless device to contact his command outside the country, should disguise his voice.
4. The time of communication should be carefully specified.
5. The frequency should be changed from time to time.
6. The device should be frequently moved from one location to

   another.
7. Do not reveal your location to the entity for which you report.
8. The conversation should be in general terms so as not to raise
   suspicion.

http://www.usdoj.gov/ag/trainingmanual.htm

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

2200.5		Pip + 3-tone channel marker. Moved per 1-1-2002 from 2232.5 to this new freq AM 01-01-2002 Tue 2051 (AB)
2200.5		Pip + 3-tone channel marker. Moved on 25-1 from 3250.5 back to 2200.5 AM 26-01-2002 Sat 2035 (AB)
2200.5		Pip + 3-tone channel marker. Moved back from 2207.5 AM 29-01-2002 Tue 1834 (AB)
2207.5		Pip + 3-tone channel marker AM 28-01-2002 Mon 2156
2232.5		Pip + 3-tone channel marker AM 31-12-2001 Mon 1900
2317	M21	Russian Air Defense. BT99 etc CW 02-01-2002 Wed 2123 (AB)
2317	M21	Russian Air Defense CW 28-01-2002 Mon 2131 (AB)
2331	FC1T	yelm yelm yelm de fc1t fc1t CW 06-01-2002 Sun 2348
2362	D3LA	Msgs to U2XC followed by U2XC marker CW 14-01-2002 Mon 2102 (AB)
2362	JFZR	Msg to FHWL followed by FHWL marker CW 13-01-2002 Sun 1934 (AB)
2362	W2E9	Unid Slovak/Czech mil. yfcy yfcy yfcy yfcy de w2e9 qtc 8 20 07 0203 007 = yfcy =" then 5LG's ending with "wkrsm = w2e9 AR, several messages to yfcy CW
2362	XGW1	Msgs to XOSV followed by XOSV marker CW 15-01-2002 Tue 2128 (AB)
2548	M51	NR 48 J 28 20:32:21 = CW 28-01-2002 Mon 1933 (RGA)
2626	E10	Israeli Intel. in progress AM 19-01-2002 Sat 2213 (AB)
2680	M22	Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002 Sat 2346 (AB)
2686		ldbo ldbo ldbo qtc 8392t 7t3 839..noise.. then 5LG's ending with pupˇo=716 rpta 1 q ln AR CW 07-01-2002 Mon
2813	MX	Channel marker "N" CW 11-01-2002 Fri 2301 (PILE)
2815	CH8N	Msg 430 22 0050=227=CH8N= 5FGs CW 21-01-2002 Mon 2349 (RGA)
3178		3-tone marker, this time without the pip USB 30-01-2002 Wed 0619 (AB)
3195	MX	Russian mil Izhevsk. Channel marker "R" CW 13-01-2002 Sun 0023 (AB)
3226.5		Pip + 3-tone channel marker AM 24-12-2001 Mon 2034
3244	M13	438 CW 12-01-2002 Sat 2200 (HFD)
3244	M13	438 CW 13-01-2002 Sun 2200 (HFD)

3244	M13	438 CW 26-01-2002 Sat 2200 (HFD)
3244	M13B	id 438 TTT CW 12-01-2002 Sat 2210 (AB)
3244	M13B	id 438 TTT CW 13-01-2002 Sun 2200 (AB)
3244	M13B	id 438 TTT CW 26-01-2002 Sat 2200 (AB)
3244	M13B	id 438 TTT CW 27-01-2002 Sun 2200 (AB)
3250.5		Pip + 3-tone channel marker. Moved from 2200.5 on 21 Jan. AM 21-01-2002 Fri 1654 (AB)
3270.0	E10	Callup MIW6 (// 4165, 5230) AM 21-01-2002 Mon 2130
3330.0	2SLC	V MW3D DE 2SLC over and over CW 13-01-2002 Sun 0403 (AY)
3330.5		Unid. RRNP RRNP RRNP --.. N --.. 951 951 13 77 5FGs CW 12-01-2002 Sat 2150 (AB)
3340	MX	Russian navy St.Petersburg. Channel marker "L" CW 02-01-2002 Wed 2205 (AB)
3340	MX	Russian navy St.Petersburg. Channel marker "L" CW 12-01-2002 Sat 2338 (AB)
3340.0	MX	Channel marker "L" CW 06-01-2002 Sun 1846 (AB)
3372	NTKZ	8Q3P 8Q3P 8Q3P DE NTKZ NTKZ QTC CW 11-01-2002 Fri 2134 (AB)
3376	S8BD	5FGs to I4N5 and F4RR CW 09-01-2002 Wed 2105 (RGA)
3380.0	4XML	V BFR7 DE 4XML over and over CW 13-01-2002 Sun 0402 (AY)
3415	E10	Israeli Intel. ART AM 19-01-2002 Sat 2030 (AB)
3415	E10	Israeli Intel. FTJ AM 19-01-2002 Sat 2300 (AB)
3415	E10	From reapeated VLB8 to VLB22 now .... Still going.... USB 20-01-2002 Sun 5170 (JSI)
3415	E10	Israeli Intel. ART2 AM 26-01-2002 Sat 2100 (AB)
3415.0	E10	ART USB 03-01-2002 Thu 2200 (GG)
3415.0	E10	Message in progress AM 21-01-2002 Mon 2130 (CA)
3547.5	L9CC	V CP17 DE L9CC over and over CW 13-01-2002 Sun 0404 (AY)
3640.0	E10	Callup KPA2 (// 4780) AM 21-01-2002 Mon 2130 (CA)
3756	S30	The Pip CW 12-01-2002 Sat 2340 (AB)
3794		Unid. Cyrillic 5LGs CW 11-01-2002 Fri 0300 (MP)
3794		Unid. Cyrillic 5LGs CW 11-01-2002 Fri 2316 (AB)
3819	M76	in progress CW 14-01-2002 Mon 0502 (AB)
3823	M13	378 CW 21-01-2002 Mon 2200 (HFD)
3824	M13	id 378 CW 07-01-2002 Mon 2200 (AB)
3824	M13	id 378 CW 19-01-2002 Sat 2200 (AB)
3824	M13	id 378 CW 21-01-2002 Mon 2200 (AB)
3828		Squeaky Wheel 3-tone channel marker AM 12-01-2002 Sat 2342 (AB)
3840	E10	Israeli Intel in progress AM 20-01-2002 Sun 2218 (AB)
3863		very fast morse. 5FGs, short zero, ends "K" CW 06-01-2002 Sun 2250 (AB)
4007	M10	555 555 555 661 661 661 28 171 171 171 29 CW 17-01-2002 Thu 2100 (AB)
4007	M10	555 555 555 661 661 661 28 171 171 171 29 CW

		19-01-2002 Sat 2100 (AB)
4007	M10	555 555 555 091 091 091 26 467 467 467 23 CW 24-01-2002 Thu 2100 (AB)
4007	M10	in progress CW 27-01-2002 Sun 2106 (AB)
4016.5	M08a	_____ _____ GNRIN (_____ _____82672) CW 05-01-2002 Sat 0318 (GH)
4024	WPAH	5C3U 5C3U 5C3U DE WPAH WPAH CW 18-01-2002 Fri 2258 (AB)
4028.0	V02a	In progress, heavily distorted AM 05-01-2002 Sat 0217
4039		Unid. 5FGs. Groups with lots of zero's. Long zero's CW 09-01-2002 Wed 2206 (AB)
4043	MX	Russian Navy Kaliningrad. Channel marker "P" for 5 mins, followed by unreadable rtty and back to "P" again. S/off at 2315 UTC CW 18-01-2002 Fri 2300 (AB)
4073	M13	id 346 CW 23-01-2002 Wed 2200 (AB)
4079	MX	Russian navy Kaliningrad "P", followed by 5FGs from RMP to RAM CW 09-01-2002 Wed 2200 (AB)
4165	E10	Israeli Intel. MIW2 AM 20-01-2002 Sun 2219 (AB)
4165	E10	Israeli Intel. MIW23 AM 21-01-2002 Mon 1907 (AB)
4165	E10	Israeli Intel. MIW2 AM 22-01-2002 Tue 2212 (AB)
4165.0	E10	MIW2 USB 11-01-2002 Fri 1815 (GG)
4165.0	E10	Callup MIW6 (// 5230, 3270) AM 21-01-2002 Mon 2130
4173.0	M08a	ID 43842 68602 90772 CW 23-01-2002 Wed 1200 (BS3)
4180	M03	287/00 CW 30-01-2002 Wed 1630 (HFD)
4231	XSL	Slot machine AM 02-01-2002 Wed 1851 (TI)
4241	M22	Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002 Sat 2347 (AB)
4261	WFFI	3ZLI de WFFI QTC 474 109 10 0024 474=ZWE 498=MMMEE EHHHA AAZZZ LLLTT TZZZN NNPPP YOThJ RPDGT CW 09-01-2002 Wed 2143 (RGA)
4270	E10	Israeli Intel. PCD2 AM 19-01-2002 Sat 2030 (AB)
4270	E10	Israeli Intel. PCD2 AM 26-01-2002 Sat 2100 (AB)
4270.0	E10	Callup PCD then message AM 21-01-2002 Mon 2130 (CA)
4291	XSL	Slot machine AM 02-01-2002 Wed 1852 (TI)
4325.0	MX	R USB 03-01-2002 Thu 2200 (GG)
4325.0	MX	R USB 11-01-2002 Fri 1608 (GG)
4326	MX	Russian mil Izhevsk. Channel marker "R" CW 12-01-2002 Sat 2344 (AB)
4331	M22	4XZ. Israeli Navy Haifa. Marker CW 14-01-2002 Mon 2024
4331	M22	Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002 Sat 2345 (AB)
4360	E10	Israeli Intel. CIO2 AM 14-01-2002 Mon 2048 (AB)
4360	E10	Israeli Intel. CIO2 AM 14-01-2002 Mon 2048 (AB)
4360.0	E10	CIO2 USB 10-01-2002 Thu 2045 (GG)
4365	M13	id 417 CW 13-01-2002 Sun 2000 (AB)
4365	M13	id 417 CW 14-01-2002 Mon 2000 (AB)
4365	M13	id 417 CW 27-01-2002 Sun 2000 (AB)
4365	M13	417 CW 27-01-2002 Sun 2000 (HFD)

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4396           J7XD J7XD J7XD = D3QK D3QK D3QK +     Daily sked 24h a
                day CW 13-01-2002 Sun 2139 (AB)
4396           QR2U QR2U QR2U = KP6F KP6F KP6F + CW 29-01-2002 Thu
               2147 (AB)
4396    B3ET   Slovak Mil. CW 09-01-2002 Wed 2149 (RGA)
4460.0  E10    Callup FTJ then message AM 21-01-2002 Mon 2130 (CA)
4461    E10    Israeli Intel in progress AM 20-01-2002 Sun 2221 (AB)
4461    E10    USB 21-01-2002 Mon 1747 (TI)
4461.0  E10    FTJ USB 03-01-2002 Thu 2200 (GG)
4461.0  E10    FTJ 2 msgs: 25 ?DIHA/30 YUZEJ USB 11-01-2002 Fri 2000
               (GG)
4473    M13    id 411 CW 06-01-2002 Sun 2130 (AB)
4473    M13    id 411 CW 19-01-2002 Sat 2131 (AB)
4473    M13    id 411 CW 20-01-2002 Sun 2130 (AB)
4478.0  M08a   ID 31101 01953 18572 CW 08-01-2002 Tue 1200 (BS3)
4478.0  M08a   ID 31101 01953 18572 CW 08-01-2002 Tue 1200 (BS3)
4479.0  V02    Very Choppy here. AM 11-01-2002 Fri 0409 (SJ2)
4490    M01    197-6133/30=35165 CW 02-01-2002 Wed 2000 (HFD)
4500    M14    5Fgs to 263 CW 14-01-2002 Mon 2014 (PILE)
4557    XPH    Msg AM 01-01-2002 Fri 2150 (AB)
4557    XPH    msg AM 01-01-2002 Tue 2150 (HFD)
4557    XPH    msg AM 04-01-2002 Fri 2150 (HFD)
4557    XPH    Msg AM 11-01-2002 Fri 2150 (AB)
4557    XPH    msg AM 11-01-2002 Fri 2150 (HFD)
4557    XPH    Msg AM 15-01-2002 Tue 2150 (AB)
4560    E10    Israeli Intel. in progress AM 18-01-2002 Fri 0236
4560    E10    USB 20-01-2002 Sun 1746 (TI)
4560    E10    USB 21-01-2002 Mon 1747 (TI)
4625    S28    Buzzer AM 19-01-2002 Sat 1638 (TI)
4625.0  S28    Busy at buzzying USB 03-01-2002 Thu 2200 (GG)
4625.0  S28    Busy at buzzying USB 11-01-2002 Fri 1608 (GG)
4627    XPH    msg  splash from the Buzzer on 4625 AM 25-01-2002 Fri
               2140 (HFD)
4627    XPH    Msg. A beautiful duet with the buzzer on 4625 kHz AM
               25-01-2002 Fri 2140 (AB)
4631.5  M21    Russian Air Defense. 10215174394816=20326501030528=
               99?1922?9???? CW 10-01-2002 Thu 1620 (RGA)
4631.5  M21    Russian Air Defense. =992259??0????? CW 17-01-2002 Thu
                1959 (AB)
4780    E10    Israeli Intel. KPA2 AM 12-01-2002 Sat 2320 (AB)
4780.0  E10    Callup KPA2 (// 3640) AM 21-01-2002 Mon 2130 (CA)
4792    G06    436-908/46=13285 AM 11-01-2002 Fri 1930 (HFD)
4858    M10    555 555 555 780 780 780 24 181 181 181 28 CW
               19-01-2002 Sat 1720 (AB)
4880    E10    ULX2 //6270 USB 03-01-2002 Thu 1602 (TI)
4880    E10    USB 12-01-2002 Sat 1632 (TI)
4880    E10    Israeli Intel. ULX2 AM 19-01-2002 Sat 1930 (AB)
4880    E10    Israeli Intel. ULX gr 100 AM 19-01-2002 Sat 2000 (AB)
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4880	E10	Israeli Intel. ULX AM 19-01-2002 Sat 2030 (AB)
4880	E10	Israeli Intel. ULX2 AM 26-01-2002 Sat 2100 (AB)
4880.0	E10	ULX 100 UBNSK USB 11-01-2002 Fri 2000 (GG)
4880.0	E10	Good signal tonight. After End Of Message, Group 3? Then mo USB 12-01-2002 Sat 0410 (JSI)
4880.0	E10	Callup ULX2 AM 21-01-2002 Mon 2100 (CA)
4880.0	E10	Callup ULX then message AM 21-01-2002 Mon 2130 (CA)
4880.0	E10	In Progress USB 29-01-2002 Tue 0210 (JSI)
4881	E10	ULX USB 12-01-2002 Sat 1802 (TI)
4881	E10	ULX USB 20-01-2002 Sun 1802 (TI)
4951,5	M21	Russian Air Defense =990216??8???? CW 21-01-2002 Mon 2315 (RGA)
4951,5	M21	Russian Air Defense CW 25-01-2002 Fri 2147 (AB)
4951.5	M21	Russian Air Defense =99TT47??8???? CW 24-01-2002 Thu 2147 (PPF)
4989	M01b	514 (R4) 276 276 35 35 = = FGs repeated = 276 276 35 35 000 CW 17-01-2002 Thu 2130 (AB)
5062	M13	id 261 CW 07-01-2002 Mon 2100 (AB)
5062	M13	id 261 CW 21-01-2002 Mon 2100 (AB)
5063	M01b	in progress 5FGs. Ends = 276 276 35 35 000 CW 14-01-2002 Mon 2118 (AB)
5090.0	E10	Callup JSR then message (Group 4 0) AM 21-01-2002 Mon 2100 (CA)
5090.0	E10	Callup JSR then message AM 21-01-2002 Mon 2130 (CA)
5091	E10	Israeli Intel. JSR gr 114 AM 19-01-2002 Sat 1930 (AB)
5091	E10	Israeli Intel. JSR2 AM 19-01-2002 Sat 2000 (AB)
5091	E10	Israeli Intel. JSR AM 26-01-2002 Sat 2100 (AB)
5091.0	E10	JSR USB 03-01-2002 Thu 2200 (GG)
5091.0	E10	JSR2 USB 11-01-2002 Fri 2000 (GG)
5102	E07	981/1 4##/59=8#0#8 AM 16-01-2002 Wed 2140 (HFD)
5105	G06	308-796/134=46728 AM 07-01-2002 Mon 1900 (HFD)
5134.0	M08a	----- ----- ----- (in progress) CW 27-01-2002 Sun 1205
5135.0	V02a	In prog; poor audio AM 12-01-2002 Sat 0131 (BM)
5153.9	MX	Russian navy Arkhangelsk. Cluster beacon "S" CW 08-01-2002 Tue 1932 (WP3)
5153.9	MX	Cluster beacon "S", Arkhangelsk CW 14-01-2002 Mon 2016 (AB)
5159	M22	Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002 Sat 2141 (AB)
5170	E10	VLB2 USB 02-01-2002 Wed 1847 (TI)
5170	E10	VLB2 USB 02-01-2002 Wed 1902 (TI)
5170	E10	VLB2 USB 02-01-2002 Wed 1918 (TI)
5170	E10	VLB2 USB 03-01-2002 Thu 1647 (TI)
5170	E10	VLB2 USB 04-01-2002 Fri 1647 (TI)
5170	E10	VLB2 USB 07-01-2002 Mon 1547 (TI)
5170	E10	VLB2 USB 07-01-2002 Mon 1647 (TI)
5170	E10	VLB2 USB 08-01-2002 Tue 1547 (TI)
5170	E10	VLB23 USB 19-01-2002 Sat 1647 (TI)

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5170    E10    Israeli Intel. VLB6 AM 19-01-2002 Sat 2045 (AB)
5170    E10    Israeli Intel. VLB2 AM 20-01-2002 Sun 2132 (AB)
5170    E10    VLB2 USB 21-01-2002 Mon 1747 (TI)
5170.0  E10    Israeli Intelligence VLB2 USB 11-01-2002 Fri 1448 (AY)
5170.0  E10    VLB6 AM 19-01-2002 Sat 2045 (AB)
5170.0  E10    Continuous VLB6 changed to VLB8 ..... USB 20-01-2002
               Sun 0247 (JSI)
5170.0  E10A   VLB 23 HMHKQ USB 10-01-2002 Thu 2045 (GG)
5177.0  XM     Mic feedback and weird noises. Have recording of it.
               AM 13-01-2002 Sun 0045 (QZD)
5229.0  E10    MIW2 AM 05-01-2002 Sat 0220 (CS)
5230    E10    MIW2 USB 03-01-2002 Thu 1517 (TI)
5230    E10    MIW2//7445 USB 03-01-2002 Thu 1617 (TI)
5230    E10    MIW2 USB 04-01-2002 Fri 1417 (TI)
5230    E10    MIW2 USB 04-01-2002 Fri 1517 (TI)
5230    E10    MIW2 //7445 USB 04-01-2002 Fri 1617 (TI)
5230    E10    MIW2 //7445 USB 04-01-2002 Fri 1717 (TI)
5230    E10    MIW2 //8025 USB 07-01-2002 Mon 1517 (TI)
5230    E10    MIW2 USB 07-01-2002 Mon 1617 (TI)
5230    E10    MIW2 USB 08-01-2002 Tue 1617 (TI)
5230    E10    Israeli Intel. MIW2 AM 20-01-2002 Sun 2132 (AB)
5230    E10    MIW23 USB 21-01-2002 Mon 1717 (TI)
5230    E10    Israeli Intel. MIW23 AM 21-01-2002 Mon 1719 (AB)
5230    E10    MIW6 USB 21-01-2002 Mon 2119 (TI)
5230.0  E10    MIW2 USB 11-01-2002 Fri 1815 (GG)
5230.0  E10    Callup MIW6 (// 4165, 3270) AM 21-01-2002 Mon 2130
5230.0  E10a   MIW6 USB 21-01-2002 Mon 2155 (GG)
5230.0  E10a   MIW6 USB 21-01-2002 Mon 2300 (GG)
5230.0  E10a   MIW6 USB 21-01-2002 Mon 2330 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0000 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0030 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0130 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0200 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0230 (GG)
5230.0  E10a   MIW6 USB 22-01-2002 Tue 0300 (GG)
5230.0  E10a   MIW8 USB 22-01-2002 Tue 0330 (GG)
5230.0  E10a   MIW8 USB 22-01-2002 Tue 0400 (GG)
5230.0  E10a   MIW22 USB 22-01-2002 Tue 0430 (GG)
5230.0  E10a   MIW22 USB 22-01-2002 Tue 0500 (GG)
5230.0  E10a   MIW22 USB 22-01-2002 Tue 0530 (GG)
5255    M12    529 529 529 000 CW 24-01-2002 Thu 2000 (AB)
5274,5  M13A   id 735 TTT CW 29-01-2002 Tue 2100 (AB)
5275    M13    735/0 CW 15-01-2002 Tue 2100 (HFD)
5320    M01    197 CW 10-01-2002 Thu 1800 (HFD)
5339    E10    CIO2 USB 02-01-2002 Wed 1847 (TI)
5339    E10    CIO2 //7605 USB 03-01-2002 Thu 1448 (TI)
5339    E10    CIO2 //7605 USB 03-01-2002 Thu 1547 (TI)
5339    E10    CIO2 //7605 USB 04-01-2002 Fri 1447 (TI)
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5339 E10 CIO2 //7605 USB 04-01-2002 Fri 1547 (TI)
5339 E10 CIO2 USB 05-01-2002 Sat 1947 (TI)
5339 E10 CIO2 //7605 USB 08-01-2002 Tue 1547 (TI)
5339 E10 Israeli Intel. CIO2 AM 10-01-2002 Thu 1639 (RGA)
5339 E10 CIO2 //7605 USB 12-01-2002 Sat 1647 (TI)
5339 E10 CIO2 USB 12-01-2002 Sat 1747 (TI)
5339 E10 Israeli Intel. CIO2 AM 19-01-2002 Sat 2045 (AB)
5339 E10 CIO2 USB 21-01-2002 Mon 1647 (TI)
5339 E10 CIO2 USB 21-01-2002 Mon 1748 (TI)
5339.0 E10 CIO2 USB 10-01-2002 Thu 2045 (GG)
5339.0 E10 Israeli Intelligence CIO2 USB 11-01-2002 Fri 1450 (AY)
5340.0 E10 Callup CIO2 AM 21-01-2002 Mon 2050 (CA)
5344 555 ending 000 000 CW 21-01-2002 Mon 2256 (RGA)
5383.0 NH8T V LA5H DE NH8T over and over CW 13-01-2002 Sun 0402 (AY)
5417.0 V02a 60961, 37932, 16512 poor signal AM 25-01-2002 Fri 0200 (NSC)
5419.0 M08a ----- ----- ----- (In progress) CW 05-01-2002 Sat 0214
5419.5 M08a GTGMN GMUTA RDNDA (80892 89401 63231) CW 12-01-2002 Sat 0200 (GH)
5422 E03 LP //6485//8464.0 ID 67152 USB 05-01-2002 Sat 1900
5422 E03 LP id 97561 USB 27-01-2002 Sun 2200 (AB)
5422.0 E03 LP //6485.0//8464.0 id 67152 USB 05-01-2002 Sat 1900
5422.0 E03 67517 USB 11-01-2002 Fri 1800 (GG)
5422.0 E03 67152? Lots of noise, but slightly readable. USB 13-01-2002 Sun 2200 (JSI)
5435 E10 ART USB 01-01-2002 Tue 1502 (TI)
5435 E10 ART USB 03-01-2002 Thu 1432 (TI)
5435 E10 ART2 USB 03-01-2002 Thu 1532 (TI)
5435 E10 ART USB 03-01-2002 Thu 1632 (TI)
5435 E10 ART1 //6986 USB 04-01-2002 Fri 1502 (TI)
5435 E10 ART USB 04-01-2002 Fri 1602 (TI)
5435 E10 ART USB 04-01-2002 Fri 1632 (TI)
5435 E10 USB 04-01-2002 Fri 1709 (TI)
5435 E10 ART USB 04-01-2002 Fri 1732 (TI)
5435 E10 ART USB 05-01-2002 Sat 1932 (TI)
5435 E10 ART USB 05-01-2002 Sat 2002 (TI)
5435 E10 ART USB 06-01-2002 Sun 1632 (TI)
5435 E10 ART2 //6986 USB 07-01-2002 Mon 1502 (TI)
5435 E10 USB 07-01-2002 Mon 1532 (TI)
5435 E10 ART USB 07-01-2002 Mon 1602 (TI)
5435 E10 ART USB 07-01-2002 Mon 1632 (TI)
5435 E10 USB 08-01-2002 Tue 1617 (TI)
5435 E10 Israeli Intel. ART2 AM 10-01-2002 Thu 2230 (TM3)
5435 E10 ART USB 12-01-2002 Sat 1702 (TI)
5435 E10 USB 13-01-2002 Sun 1532 (TI)
5435 E10 ART USB 19-01-2002 Sat 1633 (TI)
5435 E10 Israeli Intel. ART AM 19-01-2002 Sat 2030 (AB)

5435	E10	ART USB 20-01-2002 Sun 1802 (TI)
5435.0	E10	ART USB 03-01-2002 Thu 2200 (GG)
5435.0	E10	ART USB 11-01-2002 Fri 2000 (GG)
5435.0	E10	ART 2. Readable .... Occasional Unid rapid chirping over the USB 13-01-2002 Sun 2302 (JSI)
5435.0	E10	Good signal. ... GROUP 5 5 TEXT TEXT NTVSW PTCOJ IJPJG ZUTDJ USB 14-01-2002 Mon 0130 (AR2)
5435.0	E10	EE/YL/5LG - Loud & clear from my location - Just ear list of AM 20-01-2002 Sun 2146 (CA)
5435.0	E10	Callup ART2 AM 21-01-2002 Mon 2100 (CA)
5435.0	E10	Callup ART then message AM 21-01-2002 Mon 2130 (CA)
5435.0	E10	Missed callup USB 29-01-2002 Tue 0208 (JSI)
5450	V24	South Korean female AM 07-01-2002 Mon 1600 (TI)
5465	M01	197-416/35=37548 CW 06-01-2002 Sun 0700 (HFD)
5465	MX	Russian mil Izhevsk. Marker "R" CW 13-01-2002 Sun 1535 (AB)
5465.0	MX	R USB 03-01-2002 Thu 2200 (GG)
5465.0	MX	R USB 11-01-2002 Fri 1608 (GG)
5550.0	V24	South Korean female AM 10-01-2002 Thu 1430 (AY)
5715	V24	South Korean female AM 31-12-2001 Mon 1400 (AY)
5715	V24	South Korean female AM 01-01-2002 Tue 1600 (AY)
5715	V24	South Korean female AM 15-01-2002 Tue 1400 (TI)
5715	V24	South Korean female AM 19-01-2002 Sat 1600 (TI)
5735	XPH	Msg AM 01-01-2002 Tue 2130 (AB)
5735	XPH	msg AM 01-01-2002 Tue 2130 (HFD)
5735	XPH	msg AM 04-01-2002 Thu 2130 (HFD)
5735	XPH	Msg AM 11-01-2002 Fri 2130 (AB)
5735	XPH	Msg AM 15-01-2002 Tue 2130 (AB)
5735	XPH	Null msg AM 25-01-2002 Fri 2130 (AB)
5735	XPH	0-msg AM 25-01-2002 Thu 2130 (HFD)
5746	E03	LP id 04152 USB 27-01-2002 Sun 2100 (AB)
5746.0	E03	62926 USB 11-01-2002 Fri 2200 (GG)
5756	4XML	V BFR7 BFR7 BFR7 DE 4XML 4XML CW 10-01-2002 Thu 1734 (RGA)
5767.0	M13	501 (R5) BT 212 21 BT CW 28-01-2002 Mon 2215 (MS)
5778	M13	272 CW 01-01-2002 Tue 2200 (HFD)
5778	M13	id 272 CW 15-01-2002 Tue 2200 (AB)
5778	M13	272 CW 15-01-2002 Tue 2200 (HFD)
5784	XPH	Null msg AM 01-01-2002 Tue 2120 (AB)
5784	XPH	0-msg AM 01-01-2002 Tue 2120 (HFD)
5784	XPH	0-msg AM 04-01-2002 Sat 2120 (HFD)
5784	XPH	0-msg tx breaks AM 08-01-2002 Tue 2120 (HFD)
5784	XPH	Null msg AM 11-01-2002 Fri 2120 (AB)
5784	XPH	Null msg AM 15-01-2002 Tue 2120 (AB)
5784	XPH	Msg AM 25-01-2002 Fri 2120 (AB)
5784	XPH	msg AM 25-01-2002 Fri 2120 (HFD)
5820	E10	YHF //7918 USB 01-01-2002 Tue 1503 (TI)
5820	E10	YHF //7918 USB 03-01-2002 Thu 1432 (TI)

5820 E10 YHF //7918 USB 03-01-2002 Thu 1502 (TI)
5820 E10 YHF USB 03-01-2002 Thu 1532 (TI)
5820 E10 YHF //7918 USB 04-01-2002 Fri 1432 (TI)
5820 E10 YHF //7918 USB 04-01-2002 Fri 1504 (TI)
5820 E10 YHF USB 04-01-2002 Fri 1532 (TI)
5820 E10 YHF USB 04-01-2002 Fri 1632 (TI)
5820 E10 YHF2 //7918 USB 05-01-2002 Sat 1932 (TI)
5820 E10 YHF2 USB 05-01-2002 Sat 2003 (TI)
5820 E10 YHF //7918 USB 06-01-2002 Sun 1432 (TI)
5820 E10 YHF USB 06-01-2002 Sun 1632 (TI)
5820 E10 YHF //7918 USB 07-01-2002 Mon 1502 (TI)
5820 E10 YHF //7918 USB 07-01-2002 Mon 1632 (TI)
5820 E10 YHF USB 08-01-2002 Tue 1632 (TI)
5820 E10 YHF //7918 USB 09-01-2002 Wed 1502 (TI)
5820 E10 YHF //7918 USB 12-01-2002 Sat 1502 (TI)
5820 E10 YHF USB 12-01-2002 Sat 1632 (TI)
5820 E10 YHF2 USB 12-01-2002 Sat 1703 (TI)
5820 E10 YHF //10648 USB 12-01-2002 Sat 1803 (TI)
5820 E10 YHF USB 13-01-2002 Sun 1532 (TI)
5820 E10 YHF2 USB 13-01-2002 Sun 1702 (TI)
5820 E10 YHF USB 14-01-2002 Mon 1503 (TI)
5820 E10 YHF USB 19-01-2002 Sat 1634 (TI)
5820 E10 YHF USB 20-01-2002 Sun 1632 (TI)
5820 E10 YHF //10648 USB 20-01-2002 Sun 1802 (TI)
5820 E10 YHF2 USB 21-01-2002 Mon 1702 (TI)
5820.0 E10 YHF USB 03-01-2002 Thu 2200 (GG)
5820.0 E10 YHF USB 11-01-2002 Fri 1800 (GG)
5834 E15 Unid call. Too much QRM USB 23-12-2001 Sun 1730 (ML3)
5864 M13 254 CW 02-01-2002 Wed 2200 (HFD)
5864 M13 254 CW 16-01-2002 Wed 2200 (HFD)
5873 M21 Russian Air Defense. 23620901090800=992156??0?????
=992157??0????? 13620171329656=992158??0????? CW
16-01-2002 Wed 1900 (RGA)
5873 M21 Russian Air Defense. =992058??0????? CW 17-01-2002 Thu
1759 (AB)
5899 E07 981/0 AM 08-01-2002 Tue 2120 (HFD)
6210 S06 USB 15-01-2002 Tue 1413 (TI)
6215 V24 South Korean female 2385 36 AM 03-01-2002 Thu 1400
6215 V24 South Korean female AM 04-01-2002 Fri 1406 (TI)
6215 V24 South Korean female AM 04-01-2002 Fri 1500 (AY)
6215 V24 South Korean female AM 07-01-2002 Mon 1614 (TI)
6215 V24 South Korean female AM 12-01-2002 Sat 1404 (TI)
6215 V24 South Korean female AM 19-01-2002 Sat 1400 (TI)
6215 V24 South Korean female AM 19-01-2002 Sat 1500 (TI)
6215 V24 South Korean female AM 19-01-2002 Sat 1530 (TI)
6215.0 V24 South Korean female AM 10-01-2002 Thu 1500 (AY)
6215.0 V24 South Korean female AM 10-01-2002 Thu 1530 (AY)
6215.0 V24 South Korean female 2133 22 AM 12-01-2002 Sat 1400

6270 E10 USB 02-01-2002 Wed 1847 (TI)
6270 E10 ULX //7760 USB 03-01-2002 Thu 1502 (TI)
6270 E10 ULX2 //4880 USB 03-01-2002 Thu 1603 (TI)
6270 E10 ULX USB 03-01-2002 Thu 1632 (TI)
6270 E10 ULX2 USB 04-01-2002 Fri 1432 (TI)
6270 E10 ULX2 USB 04-01-2002 Fri 1532 (TI)
6270 E10 ULX USB 04-01-2002 Fri 1632 (TI)
6270 E10 ULX2 USB 05-01-2002 Sat 1933 (TI)
6270 E10 ULX2 USB 06-01-2002 Sun 1432 (TI)
6270 E10 ULX USB 06-01-2002 Sun 1502 (TI)
6270 E10 ULX2 USB 06-01-2002 Sun 1532 (TI)
6270 E10 ULX USB 06-01-2002 Sun 1632 (TI)
6270 E10 ULX2 USB 06-01-2002 Sun 1702 (TI)
6270 E10 ULX2 USB 07-01-2002 Mon 1533 (TI)
6270 E10 ULX2 USB 07-01-2002 Mon 1602 (TI)
6270 E10 ULX USB 07-01-2002 Mon 1632 (TI)
6270 E10 ULX2 USB 08-01-2002 Tue 1602 (TI)
6270 E10 ULX USB 08-01-2002 Tue 1633 (TI)
6270 E10 ULX //7760 USB 09-01-2002 Wed 1502 (TI)
6270 E10 ULX2 USB 12-01-2002 Sat 1602 (TI)
6270 E10 ULX USB 12-01-2002 Sat 1632 (TI)
6270 E10 ULX2 USB 12-01-2002 Sat 1703 (TI)
6270 E10 ULX2 //7760 USB 13-01-2002 Sun 1532 (TI)
6270 E10 ULX2 USB 13-01-2002 Sun 1602 (TI)
6270 E10 ULX USB 13-01-2002 Sun 1632 (TI)
6270 E10 ULX2 //7760 USB 14-01-2002 Mon 1532 (TI)
6270 E10 ULX USB 19-01-2002 Sat 1634 (TI)
6270 E10 Israeli Intel. JSR gr 32 AM 19-01-2002 Sat 2030 (AB)
6270 E10 ULX USB 20-01-2002 Sun 1633 (TI)
6270 E10 ULX2 USB 20-01-2002 Sun 1702 (TI)
6270 E10 ULX2 USB 21-01-2002 Mon 1703 (TI)
6270.0 E10 ULX group _6 A_S(V?)_, v. wk/noisy //7760 USB 12-01-2002 Sat 0100 (GH)
6270.0 E10 5LGs already in progress AM 17-01-2002 Thu 0509 (MADX)
6270.0 E10 In progress. Assume ULX. Very week. AM 24-01-2002 Thu 0110 (EOH)
6370 E10 KPA2 //10125 USB 01-01-2002 Tue 1518 (TI)
6370 E10 KPA2 USB 02-01-2002 Wed 1919 (TI)
6370 E10 KPA2 //10125 USB 03-01-2002 Thu 1518 (TI)
6370 E10 KPA2 USB 03-01-2002 Thu 1618 (TI)
6370 E10 KPA2 // 10125 USB 04-01-2002 Fri 1517 (TI)
6370 E10 KPA2 USB 04-01-2002 Fri 1617 (TI)
6370 E10 KPA2 USB 04-01-2002 Fri 1717 (TI)
6370.0 E10 SYN2 USB 10-01-2002 Thu 2045 (GG)
6378 M13 261 CW 06-01-2002 Sun 2000 (HFD)
6378 M13 261 CW 06-01-2002 Sun 2100 (HFD)
6378 M13 id 517 CW 07-01-2002 Mon 2000 (AB)
6378 M13 id 261 CW 20-01-2002 Sun 2100 (AB)

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6378    M13    id 517 CW 21-01-2002 Mon 2100 (AB)
6378    M13    517 CW 22-01-2002 Tue 2000 (HFD)
6378    M13    517 CW 22-01-2002 Tue 2100 (HFD)
6379    M22    4XZ, Israeli Navy Haifa. 5LGs CW 06-01-2002 Sun 1822
6379    M22    Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002
               Sat 2325 (AB)
6382    M13    714 CW 10-01-2002 Thu 2100 (HFD)
6382    M13    id 714 CW 10-01-2002 Thu 2100 (AB)
6382    M13    714 CW 11-01-2002 Fri 2100 (HFD)
6382    M13    id 714 CW 24-01-2002 Thu 2100 (AB)
6382    M13    714 CW 24-01-2002 Thu 2100 (HFD)
6382    M13    714 CW 25-01-2002 Fri 2100 (HFD)
6417    XSL    Slot machine AM 02-01-2002 Wed 1852 (TI)
6417    XSL    Slot machine USB 06-01-2002 Sun 1510 (TI)
6428    E10    ABC USB 03-01-2002 Thu 1418 (TI)
6428    E10    ABC USB 08-01-2002 Tue 1527 (TI)
6428    E10    ABC USB 09-01-2002 Wed 1400 (TI)
6428.0  E10    Israeli Intelligence ABC USB 09-01-2002 Wed 1406 (AY)
6445    XSL    Slot machine AM 02-01-2002 Wed 1852 (TI)
6445    XSL    Slot machine USB 06-01-2002 Sun 1513 (TI)
6485    E03    62926 USB 02-01-2002 Wed 1907 (TI)
6485    E03    USB 05-01-2002 Sat 1933 (TI)
6485    E03    LP id 97561 USB 27-01-2002 Sun 2200 (AB)
6485.0  E03    67517 USB 11-01-2002 Fri 1800 (GG)
6488    M13B   id 438 TTT  (harmonic of 3244 kHz) CW 27-01-2002 Sun
               2200 (AB)
6498    E10    PCD USB 03-01-2002 Thu 1533 (TI)
6498    E10    PCD USB 03-01-2002 Thu 1632 (TI)
6498    E10    PCD //8805 USB 04-01-2002 Fri 1533 (TI)
6498    E10    PCD2 USB 04-01-2002 Fri 1602 (TI)
6498    E10    PCD USB 04-01-2002 Fri 1633 (TI)
6498    E10    PCD //8805 USB 04-01-2002 Fri 1732 (TI)
6498    E10    PCD USB 06-01-2002 Sun 1502 (TI)
6498    E10    PCD USB 06-01-2002 Sun 1532 (TI)
6498    E10    PCD2 USB 06-01-2002 Sun 1703 (TI)
6498    E10    PCD USB 07-01-2002 Mon 1503 (TI)
6498    E10    PCD //8805 USB 07-01-2002 Mon 1533 (TI)
6498    E10    USB 07-01-2002 Mon 1648 (TI)
6498    E10    PCD USB 08-01-2002 Tue 1633 (TI)
6498    E10    PCD USB 12-01-2002 Sat 1532 (TI)
6498    E10    PCD2 USB 12-01-2002 Sat 1603 (TI)
6498    E10    PCD USB 12-01-2002 Sat 1634 (TI)
6498    E10    PCD2 USB 12-01-2002 Sat 1704 (TI)
6498    E10    PCD USB 12-01-2002 Sat 1732 (TI)
6498    E10    USB 13-01-2002 Sun 1518 (TI)
6498    E10    PCD USB 13-01-2002 Sun 1533 (TI)
6498    E10    PCD USB 13-01-2002 Sun 1632 (TI)
6498    E10    PCD2 USB 13-01-2002 Sun 1703 (TI)
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6498 E10 PCD2 USB 14-01-2002 Mon 1602 (TI)
6498 E10 PCD USB 19-01-2002 Sat 1634 (TI)
6498 E10 PCD USB 20-01-2002 Sun 1633 (TI)
6498 E10 PCD2 //8805 USB 20-01-2002 Sun 1702 (TI)
6498 E10 PCD //8805 USB 20-01-2002 Sun 1732 (TI)
6498 E10 PCD USB 21-01-2002 Mon 1632 (TI)
6498 E10 PCD2 USB 21-01-2002 Mon 1704 (TI)
6498 E10 USB 21-01-2002 Mon 1748 (TI)
6498.0 E10 PCD USB 03-01-2002 Thu 2200 (GG)
6498.0 E10 Faint signal. Already in progress USB 26-01-2002 Sat 0045 (JSI)
6510.0 L4FC V IBEH DE L4FC over and over CW 12-01-2002 Sat 1753
6529 V21 Cuban Babbler USB 02-01-2002 Wed 2359 (ALS)
6529 V21 Cuban Babbler USB 04-01-2002 Fri 2220 (TS)
6529.0 V021 Cuban Babbler, OM singing USB 02-01-2002 Wed 2357 (CS)
6529.0 V021 "Babbler" Poor signal, coming in just above the noise. USB 14-01-2002 Mon 2220 (QZD)
6529.0 V021 "Babbler" Clear signal. USB 17-01-2002 Thu 2330 (QZD)
6529.0 V021 "Babbler". Weak signal. USB 24-01-2002 Thu 2249 (QZD)
6529.0 V021 Weak signal w/QRM USB 30-01-2002 Wed 2318 (QZD)
6536 E10 Israeli Intel in progress AM 10-01-2002 Thu 1641 (RGA)
6574 M13 253 CW 04-01-2002 Fri 2100 (HFD)
6574 M13 in progress CW 17-01-2002 Thu 2106 (AB)
6575 E10 HNCG USB 12-01-2002 Sat 1803 (TI)
6645 V08 The Eastern Music station AM 05-01-2002 Sat 1912 (AY)
6645.0 V08 Eastern Music AM 05-01-2002 Sat 1912 (AY)
6647 V08 The Eastern Music station AM 05-01-2002 Sat 1906 (TI)
6715 E15 Nancy Adam Susan (NAS) USB 23-12-2001 Sun 1628 (ML3)
6740.0 V02 Strong- but caught JUST the end of the transmission USB 09-01-2002 Wed 0421 (SJ2)
6751 XM Backward Music station 04-01-2002 Fri 2113 (AB)
6767.0 M08a ----- ----- ----- (In progress) CW 03-01-2002 Thu 1300
6767.0 M08a ----- ----- ----- (in progress) CW 27-01-2002 Sun 1208
6768.0 V02 Very Strong- Samw strength reading as previous log- thought p USB 08-01-2002 Tue 0408 (SJ2)
6796.0 M08a ID 04454 87112 98691 CW 07-01-2002 Mon 1300 (BS3)
6797.0 M08a ----- ----- ----- (In progress) CW 04-01-2002 Fri 1234
6797.0 M08a ----- ----- ----- (in progress) CW 27-01-2002 Sun 1209
6826.0 M08 Very Weak due to QRN AM 07-01-2002 Mon 0900 (TJ3)
6840 E10 EZI //9130 USB 02-01-2002 Wed 1903 (TI)
6840.0 E10 EZI AM 01-01-2002 Tue 0130 (CS)
6840.0 E10 EZI USB 03-01-2002 Thu 2200 (GG)
6840.0 e10 Someone whistling in background USB 12-01-2002 Sat 2200 (QZD)
6842.0 E10 EZI .. Sounded like Group 5 but there is lots of noise USB 23-01-2002 Wed 0200 (JSI)
6842.0 E10 EZI Sounded like "2 Message", then a string of numbers, then USB 29-01-2002 Tue 0200 (JSI)

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6853    V02a   5FGs AM 31-01-2002 Mon 0315 (MC)
6854.0  M08a   ID 84942 80911 78841 CW 23-01-2002 Wed 1200 (BS3)
6855.0  V02A   VERY Strong signal at my location- But for a minute
               seemed li AM 08-01-2002 Tue 0330 (SJ2)
6855.0  V02A   AM 14-01-2002 Mon 0300 (MC2)
6866.0  M08a   ID 23752 08163 13812 CW 07-01-2002 Mon 1400 (BS3)
6866.0  M08a   ID 23752 08163 13812 CW 07-01-2002 Mon 1400 (BS3)
6885    V09    Chinese female Guangzhou USB 05-01-2002 Sat 1500 (AY)
6885    V09    Guangzhou USB 15-01-2002 Tue 1504 (TI)
6885.0  V09    Guangzhou USB 05-01-2002 Sat 1500 (AY)
6885.0  V09    Guangzhou AM 11-01-2002 Fri 1530 (AY)
6912    AM     Israeli Intel. KPA22 AM 21-01-2002 Mon 0559 (AB)
6912    E10    SYN2 USB 02-01-2002 Wed 1848 (TI)
6912    E10    SYN2 USB 02-01-2002 Wed 1920 (TI)
6912    E10    Israeli Intel. SYN2 AM 02-01-2002 Wed 2349 (ALS)
6912    E10    SYN2 USB 03-01-2002 Thu 1449 (TI)
6912    E10    SYN2 USB 03-01-2002 Thu 1547 (TI)
6912    E10    SYN2 USB 03-01-2002 Thu 1648 (TI)
6912    E10    SYN2 USB 04-01-2002 Fri 1448 (TI)
6912    E10    SYN2 USB 04-01-2002 Fri 1548 (TI)
6912    E10    SYN2 USB 04-01-2002 Fri 1648 (TI)
6912    E10    SYN2 USB 05-01-2002 Sat 1948 (TI)
6912    E10    KPA2 USB 06-01-2002 Sun 1517 (TI)
6912    E10    KPA2 USB 06-01-2002 Sun 1618 (TI)
6912    E10    KPA2 USB 07-01-2002 Mon 1517 (TI)
6912    E10    KPA2 USB 08-01-2002 Tue 1618 (TI)
6912    E10    KPA2 USB 12-01-2002 Sat 1518 (TI)
6912    E10    KPA2 USB 12-01-2002 Sat 1618 (TI)
6912    E10    KPA2 USB 12-01-2002 Sat 1718 (TI)
6912    E10    KPA2 USB 12-01-2002 Sat 1818 (TI)
6912    E10    KPA2 USB 13-01-2002 Sun 1518 (TI)
6912    E10    KPA2 USB 13-01-2002 Sun 1618 (TI)
6912    E10    KPA2 USB 14-01-2002 Mon 1518 (TI)
6912    E10    KPA2 USB 19-01-2002 Sat 1618 (TI)
6912    E10    Israeli Intel. KPA2 AM 19-01-2002 Sat 2130 (AB)
6912    E10    KPA23 USB 20-01-2002 Sun 1717 (TI)
6912    E10    KPA23 USB 20-01-2002 Sun 1741 (TI)
6912    E10    KPA2 USB 21-01-2002 Mon 1617 (TI)
6912    E10    KPA2 USB 21-01-2002 Mon 1719 (TI)
6912    E15    KPA2 AM 26-01-2002 Sat 2120 (HFD)
6912.0  E10    SYN2 AM 01-01-2002 Tue 0345 (CS)
6912.0  E10    KPA2 USB 11-01-2002 Fri 1815 (GG)
6914           257 257 257 CW 03-01-2002 Thu 1841 (RGA)
6924    XPH    null AM 01-01-2002 Tue 2100 (TI)
6924    XPH    Null msg AM 01-01-2002 Tue 2100 (AB)
6924    XPH    0-msg AM 01-01-2002 Tue 2100 (HFD)
6924    XPH    0-msg AM 04-01-2002 Fri 2100 (HFD)
6924    XPH    null AM 04-01-2002 Fri 2100 (TI)
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6924 XPH 0-msg AM 11-01-2002 Fri 2100 (HFD)
6924 XPH Null msg AM 15-01-2002 Tue 2100 (AB)
6924 XPH msg AM 25-01-2002 Fri 2100 (HFD)
6925.5 L9CC V CP17 DE L9CC CW 18-01-2002 Fri 2245 (AB)
6930 E10 Israeli Intel. VLB6 AM 19-01-2002 Sat 2216 (AB)
6930 E10 USB 20-01-2002 Sun 1752 (TI)
6930 E10 Israeli Intel. VLB2 AM 20-01-2002 Sun 2132 (AB)
6930 E10 Israeli Intel. MIW23 AM 21-01-2002 Mon 1715 (AB)
6930 E10 Israeli Intel. VLB2 AM 26-01-2002 Sat 2350 (AB)
6930.0 E10 VLB6. Being repeated over and over. USB 19-01-2002 Sat 2342 (JSI)
6930.0 E10 VLB2 being repeated. USB 26-01-2002 Sat 0047 (JSI)
6933.0 M08a ID 24921 51272 43572 CW 08-01-2002 Tue 1200 (BS3)
6933.0 M08a ID 24921 51272 43572 CW 08-01-2002 Tue 1200 (BS3)
6935 E07 913/0 AM 16-01-2002 Wed 0610 (HFD)
6935 E07 913/0 AM 23-01-2002 Wed 0610 (HFD)
6935 M13 915 CW 10-01-2002 Thu 1800 (HFD)
6935 M13 915 CW 11-01-2002 Fri 1800 (HFD)
6935 M13 915 CW 25-01-2002 Fri 1800 (HFD)
6959 E03 LP. id 62926 //5746 USB 04-01-2002 Fri 2200 (AB)
6959 E03 LP id 56646 USB 19-01-2002 Sat 2200 (AB)
6959 E03 LP is 76722 USB 24-01-2002 Thu 2100 (AB)
6959 E03 LP id 32149 USB 26-01-2002 Sat 2100 (AB)
6959 E03 LP id 04152 USB 27-01-2002 Sun 2100 (AB)
6959.0 E03 37739 USB 11-01-2002 Fri 2000 (GG)
6959.0 E03 62926 USB 11-01-2002 Fri 2200 (GG)
6959.0 E03 Transmission already in progress. Female in english 5N group USB 21-01-2002 Mon 2240 (TJ2)
6959.0 E03 56646 USB 26-01-2002 Sat 2200 (MC2)
6960.0 E05 in progress usb 09-01-2002 Wed 2230 (CS)
6965 E07 981/0 AM 07-01-2002 Mon 2100 (HFD)
6965 E07 981/0 AM 09-01-2002 Wed 2100 (HFD)
6965 E07 981/1 4+##/59= 8#0#8 AM 16-01-2002 Wed 2100 (HFD)
6965.0 E07 Weak, short null message. AM 28-01-2002 Mon 2100 (OD)
6968 M42 FAPSI RTTY 03-01-2002 Thu 1845 (RGA)
6970 E05 Counting Station 635 USB 26-01-2002 Sat 2100 (AB)
6970 E05 giving the "count". Did they start at AM 26-01-2002 Sat 2119 (HFD)
6980 M23 555 for 10 minutes. Daily sked. Also heard on 6-1, 7-1, 8-1, 9-1 CW 05-01-2002 Sat 2030 (AB)
6980 M23 555 repeated CW 07-01-2002 Mon 2115 (PILE)
6980.0 M23 555 555 555 for 10 minutes CW 05-01-2002 Sat 2030 (AB)
6986 E10 ART2 USB 03-01-2002 Thu 1403 (TI)
6986 E10 ART USB 03-01-2002 Thu 1503 (TI)
6986 E10 ART2 USB 04-01-2002 Fri 1402 (TI)
6986 E10 ART1 //5435 USB 04-01-2002 Fri 1504 (TI)
6986 E10 ART2 USB 06-01-2002 Sun 1503 (TI)
6986 E10 ART2 //5435 USB 07-01-2002 Mon 1503 (TI)

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6986    E10    ART USB 09-01-2002 Wed 1503 (TI)
6986    E10    ART USB 12-01-2002 Sat 1503 (TI)
6986    E10    ART USB 13-01-2002 Sun 1502 (TI)
6986    E10    ART USB 14-01-2002 Mon 1504 (TI)
6986    E10    Israeli Intel. ART2 AM 26-01-2002 Sat 2302 (AB)
7038.9  MX     Cluster beacon "S", Arkhangelsk CW 14-01-2002 Mon 2016
                (AB)
7320.0  M08a   ID 18024 51271 43571 CW 07-01-2002 Mon 1302 (BS3)
7320.0  M08a   ID 95851 80492 15752 CW 23-01-2002 Wed 1300 (BS3)
7322    E10    FTJ USB 05-01-2002 Sat 1934 (TI)
7337    E03    LP id 99689 USB 27-01-2002 Sun 1800 (AB)
7337.0  E03    07347 USB 03-01-2002 Thu 2200 (GG)
7337.0  E03    In Progress USB 30-01-2002 Wed 2230 (JSI)
7445    E10    USB 01-01-2002 Tue 1519 (TI)
7445    E10    MIW2 //5230 USB 03-01-2002 Thu 1618 (TI)
7445    E10    MIW2 //5230 USB 04-01-2002 Fri 1618 (TI)
7445    E10    MIW2//5230 USB 04-01-2002 Fri 1718 (TI)
7445    E10    SYN2 //10970 USB 07-01-2002 Mon 1648 (TI)
7445    E10    SYN2 //9270 USB 08-01-2002 Tue 1648 (TI)
7445    E10    SYN2 //10970 USB 12-01-2002 Sat 1648 (TI)
7445    E10    SYN2 //10970 USB 14-01-2002 Mon 1548 (TI)
7445    E10    SYN2 //10970 USB 20-01-2002 Sun 1647 (TI)
7445    E10    SYN2 //10970 USB 20-01-2002 Sun 1748 (TI)
7445    E10    SYN2 //10970 USB 21-01-2002 Mon 1648 (TI)
7445    E10    Israeli Intel. SYN2 AM 22-01-2002 Tue 2149 (AB)
7445    E10    Israeli Intel. SYN2 AM 26-01-2002 Sat 2351 (AB)
7445.0  E10    SYN2 USB 10-01-2002 Thu 2045 (GG)
7447    XPH    msg AM 01-01-2002 Mon 2110 (HFD)
7447    XPH    Msg AM 01-01-2002 Tue 2110 (AB)
7447    XPH    msg AM 04-01-2002 Fri 2110 (HFD)
7447    XPH    0-msg AM 08-01-2002 Tue 2110 (HFD)
7447    XPH    Msg AM 11-01-2002 Fri 2110 (AB)
7447    XPH    Msg AM 15-01-2002 Tue 2110 (AB)
7447    XPH    0-msg AM 25-01-2002 Fri 2110 (HFD)
7519.0  M08a   in tfc CW 07-01-2002 Mon 1303 (BS3)
7519.0  M08a   ID 99662 39341 60443 CW 25-01-2002 Fri 2200 (MS)
7519.0  M08a   ID 99663 39342 20741 CW 28-01-2002 Mon 2200 (MS)
7540    E10    JSR USB 04-01-2002 Fri 1403 (TI)
7540    E10    JSR USB 04-01-2002 Fri 1433 (TI)
7540    E10    JSR USB 06-01-2002 Sun 1433 (TI)
7581.5  M08a   In progress, relig. QRM from 7580 CW 10-01-2002 Thu
               0809 (GH)
7605    E10    CIO2 //5339 USB 03-01-2002 Thu 1449 (TI)
7605    E10    CIO2 //5339 USB 03-01-2002 Thu 1548 (TI)
7605    E10    CIO2 //5339 USB 04-01-2002 Fri 1448 (TI)
7605    E10    CIO2 USB 04-01-2002 Fri 1648 (TI)
7605    E10    CIO2 USB 06-01-2002 Sun 1547 (TI)
7605    E10    CIO2 USB 06-01-2002 Sun 1648 (TI)
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7605    E10    CIO2 USB 07-01-2002 Mon 1548 (TI)
7605    E10    CIO2 USB 07-01-2002 Mon 1649 (TI)
7605    E10    CIO2 //5339 USB 08-01-2002 Tue 1548 (TI)
7605    E10    CIO2 USB 08-01-2002 Tue 1648 (TI)
7605    E10    CIO2 //5339 USB 12-01-2002 Sat 1649 (TI)
7605    E10    CIO2 USB 13-01-2002 Sun 1548 (TI)
7605    E10    CIO2 USB 13-01-2002 Sun 1648 (TI)
7605    E10    CIO2 USB 20-01-2002 Sun 1648 (TI)
7630.0  M23    555 (R4) NOTE: went silent and 2204Z and moved freq to
                7770M CW 25-01-2002 Fri 2200 (MS)
7745    M10    555 555 555 186 186 196 29 45T 45T 45T 34 81 81 29 29
               = =  5FGs CW 05-01-2002 Sat 1720 (AB)
7745.0  M10    555 555 555 186 186 186 29 45T 45T 45T 34 5FGs etc CW
               05-01-2002 Sat 1720 (AB)
7745.0  M10    555 555 555 186 186 186 29 45T 45T 45T 34. Same as
               yesterday CW 06-01-2002 Sun 1720 (AB)
7760    E10    ULX //6270 USB 03-01-2002 Thu 1504 (TI)
7760    E10    ULX2 USB 03-01-2002 Thu 1534 (TI)
7760    E10    USB 04-01-2002 Fri 1505 (TI)
7760    E10    ULX2 USB 04-01-2002 Fri 1533 (TI)
7760    E10    Israeli Intel. ULX2 USB 05-01-2002 Sat 1533 (AY)
7760    E10    ULX2 USB 06-01-2002 Sun 1533 (TI)
7760    E10    ULX USB 07-01-2002 Mon 1503 (TI)
7760    E10    ULX //6270 USB 09-01-2002 Wed 1503 (TI)
7760    E10    ULX USB 12-01-2002 Sat 1503 (TI)
7760    E10    ULX USB 13-01-2002 Sun 1503 (TI)
7760    E10    ULX2 //6270 USB 13-01-2002 Sun 1533 (TI)
7760    E10    ULX USB 14-01-2002 Mon 1504 (TI)
7760    E10    ULX2 //6270 USB 14-01-2002 Mon 1533 (TI)
7760.0  E10    Israeli Intelligence ULX2 USB 05-01-2002 Sat 1533 (AY)
7760.0  E10    ULX group _6 A_S(V?)_, weak //6270 USB 12-01-2002 Sat
               0100 (GH)
7770.0  M23    555 (R10) CW 21-01-2002 Mon 2200 (MS)
7770.0  M23    555 (R10) CW 22-01-2002 Tue 2200 (MS)
7770.0  M23    555 (R10) NOTE: went silent and 2204Z and moved freq
               to 7770M CW 25-01-2002 Fri 2204 (MS)
7770.0  M23    555 (R10) CW 26-01-2002 Sat 2200 (MS)
7770.0  M23    555 (R10) CW 27-01-2002 Sun 2200 (MS)
7770.0  M23    555 (R10) CW 28-01-2002 Mon 2200 (MS)
7845.0  M10    555x3 463x3 26 277x3 28 CW 26-01-2002 Sat 0700 (MS)
7889.0  M08a   ID 98692 73702 65922 CW 08-01-2002 Tue 1200 (BS3)
7889.0  M08a   ID 98692 73702 65922 CW 08-01-2002 Tue 1200 (BS3)
7890.0  M08a   ----- ----- ----- (In progress) CW 03-01-2002 Thu 1300
7918    E10    YHF //5820 USB 01-01-2002 Tue 1504 (TI)
7918    E10    YHF //5820 USB 03-01-2002 Thu 1433 (TI)
7918    E10    YHF //5820 USB 03-01-2002 Thu 1504 (TI)
7918    E10    YHF //10648 USB 03-01-2002 Thu 1603 (TI)
7918    E10    YHF //5820 USB 04-01-2002 Fri 1433 (TI)
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7918    E10    YHF //5820 USB 04-01-2002 Fri 1506 (TI)
7918    E10    YHF //10648 USB 04-01-2002 Fri 1603 (TI)
7918    E10    YHF2 //5820 USB 05-01-2002 Sat 1934 (TI)
7918    E10    YHF //5820 USB 06-01-2002 Sun 1433 (TI)
7918    E10    YHF //5820 USB 07-01-2002 Mon 1504 (TI)
7918    E10    YHF //10648 USB 07-01-2002 Mon 1603 (TI)
7918    E10    YHF //10648 USB 07-01-2002 Mon 1633 (TI)
7918    E10    YHF //10648 USB 08-01-2002 Tue 1603 (TI)
7918    E10    YHF //5820 USB 09-01-2002 Wed 1503 (TI)
7918    E10    YHF //5820 USB 12-01-2002 Sat 1504 (TI)
7918    E10    YHF //10648 USB 12-01-2002 Sat 1603 (TI)
7918    E10    YHF //10648 USB 12-01-2002 Sat 1806 (TI)
7918    E10    USB 13-01-2002 Sun 1519 (TI)
7918    E10    YHF USB 13-01-2002 Sun 1603 (TI)
7918    E10    USB 14-01-2002 Mon 1519 (TI)
7918    E10    YHF //10648 USB 14-01-2002 Mon 1603 (TI)
7918    E10    YHF //5820 USB 20-01-2002 Sun 1803 (TI)
7918    E10    //10648 USB 21-01-2002 Mon 1618 (TI)
7918.0  E10    2 msgs: 94 QVCQS/28 ORZGC USB 11-01-2002 Fri 1608 (GG)
7918.0  E10    YHF USB 11-01-2002 Fri 1800 (GG)
7918.0  E10    YHF group 57 SXONS USB 12-01-2002 Sat 0200 (GH)
7918.0  E10    Group 57.  At.. "End of Message" ... "Repeat, Repeat"
               ... USB 15-01-2002 Tue 0208 (JSI)
7918.0  E10    In Progress USB 29-01-2002 Tue 0215 (JSI)
7937.5  M51    NR46 J 14:34:44 2002= 5LGs CW 16-01-2002 Wed 1334
               (RGA)
8009.0  M08a   ID 99663 39342 20741 CW 28-01-2002 Mon 2300 (MS)
8022    QXDD   QSA'a to TS7J CW 27-01-2002 Sun 1623 (PILE)
8025    E10    MIW2 USB 06-01-2002 Sun 1518 (TI)
8025    E10    MIW2 //5230 USB 07-01-2002 Mon 1518 (TI)
8025    E10    MIW2 USB 12-01-2002 Sat 1519 (TI)
8098    M08a   GUNWG DMMIM DUAAI..... CW 13-01-2002 Sun 0739 (PILE)
8103    E07    913/0 AM 16-01-2002 Wed 0630 (HFD)
8103    E07    913/0 AM 23-01-2002 Wed 0630 (HFD)
8103    M22    Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002
               Sat 2349 (AB)
8103.0  M08a   4xz CW 09-01-2002 Wed 0106 (BS3)
8103.0  M22    4xz CW 09-01-2002 Wed 0106 (BS3)
8127    E10    KPA2 //10125 USB 03-01-2002 Thu 1419 (TI)
8127    E10    Israeli Intel. KPA2 USB 04-01-2002 Fri 1419 (AY)
8127    E10    KPA2 // 10125 USB 04-01-2002 Fri 1518 (TI)
8135.0  M08a   ID 99662 39341 60443 CW 25-01-2002 Fri 2300 (MS)
8156    M51    NR46 J 14:34:44 2002= 5LGs CW 16-01-2002 Wed 1334
               (RGA)
8160,5  M42    FAPSI in progress RTTY 24-01-2002 Thu 1730 (AB)
8186.5  M08a   In progress CW 15-01-2002 Tue 0725 (GH)
8187.0  M08a   ----- ----- ----- (in progress) CW 26-01-2002 Sat 0708
8300    V13    New Star BC AM 03-01-2002 Thu 1407 (TI)
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8300	V13	New Star BC AM 04-01-2002 Fri 1407 (TI)
8300	V13	New Star BC AM 12-01-2002 Sat 1508 (TI)
8300.0	V13	New Star Broadcasting message for "unit 2306" AM 08-01-2002 Tue 1400 (BM)
8300.0	V13	New Star Broadcasting, YL/CC 4fgx2 AM 14-01-2002 Mon 1430 (BM)
8300.0	V13	6658 danwei "please do your best to expand your contacts in a AM 23-01-2002 Wed 1400 (BM)
8300.0	V13	6453 and 7272 danwei AM 23-01-2002 Wed 1430 (BM)
8300.0	V13	New Star Broadcasting USB 31-01-2002 Thu 1400 (BM)
8307.0	M23	579 CW 05-01-2002 Sat 0800 (GH)
8307.0	M23	579 //9285 v. weak CW 10-01-2002 Thu 0804 (GH)
8307.0	M23	579 //9285 CW 15-01-2002 Tue 0800 (GH)
8464	E03	USB 01-01-2002 Tue 1506 (TI)
8464	E03	USB 03-01-2002 Thu 1606 (TI)
8464	E03	62926 //10426 USB 06-01-2002 Sun 1605 (TI)
8464	E03	62926//11545 USB 13-01-2002 Sun 1605 (TI)
8464	E03	USB 20-01-2002 Sun 1635 (TI)
8464	E03	USB 21-01-2002 Mon 1721 (TI)
8464.0	E03	67517 USB 11-01-2002 Fri 1800 (GG)
8494.9	MX	Cluster beacon "S", Arkhangelsk CW 13-01-2002 Sun 1524 (AB)
8588	XSL	Slot machine 04-01-2002 Fri 2150 (AB)
8805	E10	PCD //6498 USB 04-01-2002 Fri 1534 (TI)
8805	E10	PCD //6498 USB 04-01-2002 Fri 1733 (TI)
8805	E10	Israeli Intel. PCD USB 05-01-2002 Sat 1534 (AY)
8805	E10	PCD //6498 USB 07-01-2002 Mon 1534 (TI)
8805	E10	PCD2 //6498 USB 20-01-2002 Sun 1703 (TI)
8805	E10	PCD //6498 USB 20-01-2002 Sun 1748 (TI)
8805.0	E10	Israeli Intelligence PCD USB 05-01-2002 Sat 1534 (AY)
8992.0	V02	A 978/08 AM 15-01-2002 Tue 0400 (BM)
8992.0	V02	Cuba taunting GHFS, atencion 978/08, very loud hum on carrier AM 22-01-2002 Tue 0400 (BM)
9024.0	V02	Atencion 613/05 05/50; early start, noisy AM 15-01-2002 Tue 0800 (GH)
9090.0	E05	in progress usb 09-01-2002 Wed 2230 (CS)
9115.0	V02a	Spanish, five digit groups, "Attention" and three digit group AM 22-01-2002 Tue 0006 (JB2)
9124	M42	FAPSI. Msg on link 00098 + op-chat RTTY 22-01-2002 Tue 2056 (RGA)
9130	E10	EZI //6840 USB 02-01-2002 Wed 1904 (TI)
9130	E10	EZI USB 04-01-2002 Fri 1734 (TI)
9130	E10	EZI //11565 USB 05-01-2002 Sat 2004 (TI)
9130	E10	Israeli Intel. EZI AM 19-01-2002 Sat 2030 (AB)
9130	E10	EZI USB 20-01-2002 Sun 1733 (TI)
9130	E10	Israeli Intel. EZI AM 21-01-2002 Mon 2200 (AB)
9130	M03	VVV VVV VVV for 2 mins. Then /000 (short zero's). M03 test before the start of S11a CW 24-01-2002 Thu 0925

9130 S11a just heard the final part of the transmission. Ended with /000 USB 24-01-2002 Thu 0948 (AB)
9130.0 E10 EZI USB 03-01-2002 Thu 2200 (GG)
9130.0 E10 EZI 54 MDTDW USB 11-01-2002 Fri 2000 (GG)
9153.0 V02a ID 30113 26251 57113 -- YL/SS AM 03-01-2002 Thu 0700 (MS)
9153.0 V02a In prog, _____ _____ 84222 AM 05-01-2002 Sat 0717 (GH)
9153.0 V02a Atencion 88241 77814 93772 AM 12-01-2002 Sat 0700 (GH)
9165 S17c 95031. Second freq not found AM 03-01-2002 Thu 1250
9165 S17C 99041 AM 04-01-2002 Fri 1250 (HFD)
9165 S17C 98037 AM 05-01-2002 Sat 1250 (HFD)
9165 S17C 98038 AM 06-01-2002 Sun 1250 (HFD)
9165 S17C 99043 AM 12-01-2002 Sat 1250 (HFD)
9165 S17C 93031 AM 19-01-2002 Sat 1250 (HFD)
9165 S17C 93031 AM 20-01-2002 Sun 1250 (HFD)
9165 S17C 84027 AM 26-01-2002 Sat 1250 (HFD)
9165 S17C 12032 AM 27-01-2002 Sun 1250 (HFD)
9202 E10 Israeli Intel. in progress AM 18-01-2002 Fri 0220
9235 M42 FAPSI. Msg on link 80038 RTTY 22-01-2002 Tue 2108
9238.0 M08a AM 14-01-2002 Mon 0900 (QZD)
9251 E03 LP is 76722 USB 24-01-2002 Thu 2100 (AB)
9251 E03 LP id 98340 USB 24-01-2002 Thu 2200 (AB)
9251 E03 LP id 99689 USB 27-01-2002 Sun 1800 (AB)
9251 E03 LP id 04152 USB 27-01-2002 Sun 2100 (AB)
9251.0 E03 07347 USB 03-01-2002 Thu 2200 (GG)
9251.0 E03 28315 USB 10-01-2002 Thu 2000 (GG)
9251.0 E03 37739 USB 11-01-2002 Fri 2000 (GG)
9251.0 E03 62926 USB 11-01-2002 Fri 2200 (GG)
9251.0 E03 56646 strong jamming USB 26-01-2002 Sat 2200 (MC2)
9255 M12 529 529 529 000 CW 24-01-2002 Thu 2200 (AB)
9270 E10 VLB2 USB 03-01-2002 Thu 1450 (TI)
9270 E10 VLB2 USB 04-01-2002 Fri 1449 (TI)
9270 E10 SYN2 //10970 USB 07-01-2002 Mon 1548 (TI)
9270 E10 SYN2 //10970 USB 07-01-2002 Mon 1649 (TI)
9270 E10 SYN2 //10970 USB 08-01-2002 Tue 1549 (TI)
9270 E10 SYN2 //7445 USB 08-01-2002 Tue 1648 (TI)
9270 E10 SYN2 //10970 USB 13-01-2002 Sun 1649 (TI)
9270 E10 SYN2 //10970 USB 20-01-2002 Sun 1648 (TI)
9270 E10 SYN2 //10970 USB 20-01-2002 Sun 1750 (TI)
9270 E10 SYN2 //10970 USB 21-01-2002 Mon 1750 (TI)
9270.0 E10 SYN2 USB 10-01-2002 Thu 2045 (GG)
9285.0 M23 579 v. weak //8307 CW 10-01-2002 Thu 0804 (GH)
9285.0 M23 579 //8307 CW 15-01-2002 Tue 0800 (GH)
9323.0 V02 Fake. sounds like recorded off air. muted between groups. AM 30-01-2002 Wed 0004 (MS4)
9323.5 M08a _____ TRWNA _____ (_____ 06521 _____) CW 10-01-2002 Thu 1005 (GH)
9725 V13 New Star BC AM 03-01-2002 Thu 1407 (TI)

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 9725    V13    New Star BC AM 04-01-2002 Fri 1407 (TI)
 9725    V13    New Star BC AM 12-01-2002 Sat 1508 (TI)
10046    M22    Israeli Navy Haifa. VVV DE 4XZ 4XZ = = CW 26-01-2002
                Sat 2349 (AB)
10046.0  M22    4xz CW 09-01-2002 Wed 0106 (BS3)
10046.0  M22    4xz CW 09-01-2002 Wed 0106 (BS3)
10125    E10    KPA2 //6370 USB 01-01-2002 Tue 1520 (TI)
10125    E10    KPA2 //8127 USB 03-01-2002 Thu 1419 (TI)
10125    E10    KPA2 //6370 USB 03-01-2002 Thu 1519 (TI)
10125    E10    KPA2 USB 04-01-2002 Fri 1419 (TI)
10125    E10    KPA2 // 8127 USB 04-01-2002 Fri 1519 (TI)
10125.5  M08a   ...but then _____ GMGWA GWNUA (_____ 89851 85241) CW
                05-01-2002 Sat 0407 (GH)
10125.9  V02a   Atencion 09782 71946 09972 to start... LSB 05-01-2002
                Sat 0400 (GH)
10126.0  M08a   Very loud. 20db over. CW 15-01-2002 Tue 0900 (QZD)
10126.5  M08a   _____ _____ UIAIA (_____ _____ 47171) CW 10-01-2002
                Thu 0915 (GH)
10248    M16    8BY. DGSE Ste Assise CW 03-01-2002 Thu 1947 (RGA)
10248    M16    8BY. DGSE CW 06-01-2002 Sun 1454 (TI)
10248    M16    8BY. DGSE vvv vvv vvv 8by 8by 8by 055/872/434/860 CW
                07-01-2002 Mon 1457 (WP3)
10248    M16    8BY DGSE St. Asssise CW 24-01-2002 Thu 1441 (RGA)
10248.0  M16    VVVx3 8BYx3 612/313/605/164/982 ----- //freq on 14931M
                 CW 28-01-2002 Mon 2240 (MS)
10426    E03    Lincolnshire Poacher //11545 USB 04-01-2002 Fri 1420
10426    E03    62926// 8464 USB 06-01-2002 Sun 1606 (TI)
10446.0  V02a   AM 23-01-2002 Wed 0300 (NCS)
10532           Dep. of State Comms Moscow. Msg on link 00189. QSX
                12225 kHz CROWD36 04-01-2002 Fri 1706 (LDO)
10642    S10e   Slovak man. 61955 18 52036 23 35491 17 999 85383 20
                etc USB 17-01-2002 Thu 1300 (AB)
10648    E10    USB 02-01-2002 Wed 1849 (TI)
10648    E10    YHF //7918 USB 03-01-2002 Thu 1604 (TI)
10648    E10    YHF //7918 USB 04-01-2002 Fri 1604 (TI)
10648    E10    YHF //7918 USB 07-01-2002 Mon 1619 (TI)
10648    E10    YHF //7918 USB 07-01-2002 Mon 1634 (TI)
10648    E10    YHF //7918 USB 08-01-2002 Tue 1604 (TI)
10648    E10    YHF //7918 USB 12-01-2002 Sat 1604 (TI)
10648    E10    YHF //7918 USB 12-01-2002 Sat 1807 (TI)
10648    E10    USB 13-01-2002 Sun 1618 (TI)
10648    E10    YHF //7918 USB 14-01-2002 Mon 1604 (TI)
10648    E10    USB 19-01-2002 Sat 1619 (TI)
10648    E10    YHF //7918 USB 20-01-2002 Sun 1804 (TI)
10648    E10    //7918 USB 21-01-2002 Mon 1619 (TI)
10648.0  E10    2 msgs: 94 QVCQS/28 ORZGC USB 11-01-2002 Fri 1608 (GG)
10648.0  E10    YHF USB 11-01-2002 Fri 1800 (GG)
10750    V09    Chinese female Guangzhou AM 03-01-2002 Thu 1500 (AY)
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10750.0	V09	Guangzhou AM 11-01-2002 Fri 1530 (AY)
10790	PP8F	unid CW 27-01-2002 Sun 1426 (PILE)
10830.0	S06	AM 12-01-2002 Sat 1600 (SE)
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 13-01-2002 Sun 1524 (AB)
10871.9	MX	Russian navy Arkhangelsk. Cluster beacon "S" CW 22-02-2002 Tue 2036 (RGA)
10970	E10	SYN2 //9270 USB 07-01-2002 Mon 1548 (TI)
10970	E10	SYN2 //9270 USB 07-01-2002 Mon 1650 (TI)
10970	E10	SYN2 //9270 USB 08-01-2002 Tue 1549 (TI)
10970	E10	SYN2 USB 12-01-2002 Sat 1549 (TI)
10970	E10	SYN2 //7445 USB 12-01-2002 Sat 1650 (TI)
10970	E10	SYN2 USB 12-01-2002 Sat 1749 (TI)
10970	E10	SYN2 USB 13-01-2002 Sun 1548 (TI)
10970	E10	SYN2 //9270 USB 13-01-2002 Sun 1649 (TI)
10970	E10	SYN2 //7445 USB 14-01-2002 Mon 1549 (TI)
10970	E10	SYN2 //9270 USB 20-01-2002 Sun 1648 (TI)
10970	E10	SYN2 //7445 USB 20-01-2002 Sun 1750 (TI)
10970	E10	SYN2 //7445 USB 21-01-2002 Mon 1648 (TI)
10970	E10	SYN2 //9270 USB 21-01-2002 Mon 1750 (TI)
11096	M21	Russian Air Defense. BT99 etc CW 03-01-2002 Thu 0637
11170	E15	Otto Susan Susan (OSS) USB 20-01-2002 Sun 1237 (LDO)
11220	M23	555 CW 27-01-2002 Sun 1536 (PILE)
11430	V13	New Star BC AM 03-01-2002 Thu 1407 (TI)
11430	V13	New Star BC AM 04-01-2002 Fri 1407 (TI)
11430	V13	New Star BC AM 12-01-2002 Sat 1508 (TI)
11432.0	M08a	Mode problems, uncopiable MCW 15-01-2002 Tue 0800 (GH)
11432.5	M08a	AGINN NITID TWUND (18722 27073 05423); v. fuzzy start CW 05-01-2002 Sat 0800 (GH)
11432.5	M08a	_____ NUMNA UIAIA (_____ 24921 47171) CW 10-01-2002 Thu 0807 (GH)
11461.3		Israeli Intel/Mil VFT 04-01-2002 Fri 1848 (LDO)
11462	XPH	msg AM 18-01-2002 Fri 0700 (HFD)
11545	E03	63403 USB 04-01-2002 Fri 1508 (TI)
11545	E03	Lincolnshire Poacher //13375 USB 04-01-2002 Fri 1511
11545	E03	USB 04-01-2002 Fri 1712 (TI)
11545	E03	LP //12603//13375 ID 07324 USB 05-01-2002 Sat 1507
11545	E03	97442 USB 05-01-2002 Sat 2006 (TI)
11545	E03	USB 06-01-2002 Sun 1435 (TI)
11545	E03	28315 USB 06-01-2002 Sun 1505 (TI)
11545	E03	62926// 8464 USB 06-01-2002 Sun 1606 (TI)
11545	E03	07324 USB 06-01-2002 Sun 1705 (TI)
11545	E03	97442 //13375 USB 07-01-2002 Mon 1506 (TI)
11545	E03	id 28315 USB 07-01-2002 Mon 1610 (TI)
11545	E03	97442 //13375 USB 08-01-2002 Tue 1606 (TI)
11545	E03	18163 USB 09-01-2002 Wed 1506 (TI)
11545	E03	07324//13375 USB 12-01-2002 Sat 1506 (TI)
11545	E03	63403//13375 USB 12-01-2002 Sat 1607 (TI)

11545	E03	28315//13375 USB 13-01-2002 Sun 1506 (TI)
11545	E03	62926//8464 USB 13-01-2002 Sun 1605 (TI)
11545	E03	07324//13375 USB 13-01-2002 Sun 1706 (TI)
11545	E03	97442//13375 USB 14-01-2002 Mon 1508 (TI)
11545	E03	28315//13375 USB 14-01-2002 Mon 1606 (TI)
11545	E03	LP id 76722 USB 19-01-2002 Sat 1500 (AB)
11545	E03	LP id 56646 USB 19-01-2002 Sat 2200 (AB)
11545	E03	98340//13375 USB 20-01-2002 Sun 1706 (TI)
11545.0	E03	LP //12603//13375 id 07324 USB 05-01-2002 Sat 1507
11545.0	E03	28315 USB 10-01-2002 Thu 2000 (GG)
11545.0	E03	63403 USB 11-01-2002 Fri 1500 (GG)
11545.0	E03	37739 USB 11-01-2002 Fri 2000 (GG)
11565	E10	EZI2 USB 03-01-2002 Thu 1604 (TI)
11565	E10	EZI USB 03-01-2002 Thu 1634 (TI)
11565	E10	EZI //13533 USB 04-01-2002 Fri 1434 (TI)
11565	E10	EZI2 USB 04-01-2002 Fri 1604 (TI)
11565	E10	EZI USB 04-01-2002 Fri 1634 (TI)
11565	E10	USB 05-01-2002 Sat 1935 (TI)
11565	E10	EZI //9130 USB 05-01-2002 Sat 2004 (TI)
11565	E10	EZI2 USB 06-01-2002 Sun 1603 (TI)
11565	E10	//13533 USB 12-01-2002 Sat 1635 (TI)
11565	E10	//13533 USB 12-01-2002 Sat 1705 (TI)
11565	E10	USB 12-01-2002 Sat 1819 (TI)
11565	E10	EZI2 USB 13-01-2002 Sun 1603 (TI)
11565	E10	EZI USB 13-01-2002 Sun 1634 (TI)
11565	E10	EZI USB 13-01-2002 Sun 1704 (TI)
11565	E10	EZI2 //13533 USB 14-01-2002 Mon 1604 (TI)
11565	E10	USB 19-01-2002 Sat 1636 (TI)
11565	E10	EZI USB 20-01-2002 Sun 1634 (TI)
11565	E10	EZI USB 20-01-2002 Sun 1704 (TI)
11565	E10	EZI //13533 USB 20-01-2002 Sun 1804 (TI)
11565	E10	EZI //13533 USB 21-01-2002 Mon 1633 (TI)
11565	E10	//13533 USB 21-01-2002 Mon 1705 (TI)
11565.0	E10	EZI 94 BATQY USB 11-01-2002 Fri 1800 (GG)
11565.0	E10	EZI 54 MDTDW USB 11-01-2002 Fri 2000 (GG)
11565.0	E10	Weak signal here. USB 29-01-2002 Tue 0219 (JSI)
11565.0	V02	AM 31-01-2002 Thu 0137 (TH)
11566.0	V02	Mode: ECSS-U. Could hear multiple number transmissions at th USB 12-01-2002 Sat 0430 (JSI)
11600	S28	buzzer changing tone every occasionally USB 20-01-2002 Sun 0002 (HIT)
12012.0	V09	Guangzhou AM 11-01-2002 Fri 1630 (AY)
12180.0	V02A	Heard better in USB(ECCS-U). Strong signal USB 09-01-2002 Wed 0215 (JSI)
12215.0	V02a	60961, 37932, 16512 AM 25-01-2002 Fri 0200 (NSC)
12225		Unid Russian embassy, receiving msgs from Moscow on link 00189. QSX 10532 kHz CROWD36 04-01-2002 Fri 1706 (LDO)

12603 E03 LP id 99689 USB 27-01-2002 Sun 1800 (AB)
12603.0 E03 63403 USB 11-01-2002 Fri 1500 (GG)
13362 XPH msg AM 18-01-2002 Fri 0720 (HFD)
13362.0 XPH Weak/noisy, brief tfc; presume call 433 AM 15-01-2002 Tue 0720 (GH)
13375 E03 97442 //11545 USB 07-01-2002 Mon 1509 (TI)
13375 E03 id 28315 USB 07-01-2002 Mon 1606 (TI)
13375 E03 97442 //11545 USB 08-01-2002 Tue 1608 (TI)
13375 E03 07324//11545 USB 12-01-2002 Sat 1509 (TI)
13375 E03 63403//11545 USB 12-01-2002 Sat 1609 (TI)
13375 E03 LP in progress USB 12-01-2002 Sat 1741 (RGA)
13375 E03 28315//11545 USB 13-01-2002 Sun 1507 (TI)
13375 E03 LP in progress USB 13-01-2002 Sun 1522 (AB)
13375 E03 07324//11545 USB 13-01-2002 Sun 1707 (TI)
13375 E03 97442//11545 USB 14-01-2002 Mon 1509 (TI)
13375 E03 28315//11545 USB 14-01-2002 Mon 1606 (TI)
13375 E03 98340//11545 USB 20-01-2002 Sun 1707 (TI)
13375.0 E03 USB 06-01-2002 Sun 1700 (CS)
13375.0 E03 63403 USB 11-01-2002 Fri 1500 (GG)
13375.0 E03 Lincolnshire Poacher in progress with numbers at 1926 USB 19-01-2002 Sat 1926 (HIT)
13400 E03 VERY WEAK BUT READABLE USB 08-01-2002 Tue 0017 (JT)
13470 M42 FAPSI. Mega msg on link 80061 from VNB to WQL. RTTY 17-01-2002 Thu 1425 (AB)
13527.9 MX Cluster beacon "S", Arkhangelsk CW 13-01-2002 Sun 1524 (AB)
13533 E10 EZI USB 03-01-2002 Thu 1434 (TI)
13533 E10 EZI //11565 USB 04-01-2002 Fri 1435 (TI)
13533 E10 EZI2 USB 08-01-2002 Tue 1604 (TI)
13533 E10 //11565 USB 12-01-2002 Sat 1636 (TI)
13533 E10 //11565 USB 12-01-2002 Sat 1706 (TI)
13533 E10 EZI2 USB 13-01-2002 Sun 1504 (TI)
13533 E10 EZI2 //11565 USB 14-01-2002 Mon 1604 (TI)
13533 E10 EZI //11565 USB 20-01-2002 Sun 1804 (TI)
13533 E10 EZI //11565 USB 21-01-2002 Mon 1633 (TI)
13533 E10 //11565 USB 21-01-2002 Mon 1705 (TI)
13533.0 E10 EZI 94 BATQY USB 11-01-2002 Fri 1800 (GG)
13533.0 E10 EZI 54 MDTDW USB 11-01-2002 Fri 2000 (GG)
13750 V13 New Star BC AM 03-01-2002 Thu 1407 (TI)
13750 V13 New Star BC AM 04-01-2002 Fri 1407 (TI)
13750 V13 New Star BC AM 12-01-2002 Sat 1508 (TI)
13750.0 V13 Very faint AM 01-01-2002 Tue 1310 (CS)
13750.0 V13 AM 01-01-2002 Tue 1330 (CS)
14000 E15 FYP USB 16-01-2002 Wed 1401 (TI)
14270 M42 FAPSI in progress. Faded away before I could get the link id RTTY 17-01-2002 Thu 1501 (AB)
14362 XPH msg AM 18-01-2002 Fri 0740 (HFD)
14362.0 XPH Weak, brief tfc; presume call 433 AM 15-01-2002 Tue

		0740 (GH)
14383	M42	FAPSI. Msg on link 00098 RTTY 25-01-2002 Fri 1546
14426	M42	FAPSI RTTY 16-01-2002 Wed 1525 (PILE)
14487	E03	LP in progress USB 03-01-2002 Thu 1635 (PPF)
14487	E03	LP. id 62926 USB 05-01-2002 Sat 1400 (AB)
14487	E03	LP id 98340 USB 27-01-2002 Sun 1200 (AB)
14487	E03	LP id 82504 USB 27-01-2002 Sun 1300 (AB)
14487.0	E03	LP //15682//16084 id 67152 USB 07-01-2002 Mon 1300
14487.0	E03	07347 USB 11-01-2002 Fri 1400 (GG)
14487.0	E03	72603 USB 11-01-2002 Fri 1608 (GG)
14690	M42	FAPSI. Msg on link 00018 RTTY 31-01-2002 Thu 1543 (DW)
14728	E15	QDL (Queen David Lewis) + 5LGs USB 22-12-2001 Sat 0830 (ACE)
14739	E05	726 //16198 USB 01-01-2002 Tue 1507 (TI)
14739	E05	726 //16198 USB 04-01-2002 Fri 1508 (TI)
14739	E05	CIA Counting, Cynthia //16198 USB 04-01-2002 Fri 1512
14739	E05	726 //16198 USB 06-01-2002 Sun 1506 (TI)
14739	E05	726 //16198 USB 13-01-2002 Sun 1506 (TI)
14739.0	E05	Counting station //16198 726 USB 06-01-2002 Sun 1500
14739.0	E05	Call 726 Count 215 335/68 ... USB 11-01-2002 Fri 1500
14750		310 310 310 CW 16-01-2002 Wed 1509 (PILE)
14931.0	M16	893/354/449/475 CW 07-01-2002 Mon 1255 (BS3)
14931.0	M16	VVVx3 8BYx3 612/313/605/164/982 ----- //freq on 10248M CW 28-01-2002 Mon 2240 (MS)
15682	E03	LP id 98340 USB 27-01-2002 Sun 1200 (AB)
15682	E03	LP id 82504 USB 27-01-2002 Sun 1300 (AB)
15682.0	E03	07347 USB 11-01-2002 Fri 1400 (GG)
16025	M42	Dep. of State Comms Moscow. Msg on link 80038 RTTY 30-12-2001 Sun 1608 (LDO)
16077	XPH	msg AM 05-01-2002 Sat 1310 (HFD)
16084	E03	LP id 98340 USB 27-01-2002 Sun 1200 (AB)
16084	E03	LP id 82504 USB 27-01-2002 Sun 1300 (AB)
16084.0	E03	07347 USB 11-01-2002 Fri 1400 (GG)
16084.0	E03	72603 USB 11-01-2002 Fri 1608 (GG)
16090	E05	Counting Station. 210 USB 08-01-2002 Tue 1200 (RGA)
16198	E05	726 //14739 USB 01-01-2002 Tue 1507 (TI)
16198	E05	726 //14739 USB 04-01-2002 Fri 1509 (TI)
16198	E05	726 //14739 USB 06-01-2002 Sun 1506 (TI)
16198	E05	310 USB 12-01-2002 Sat 1608 (TI)
16198	E05	726 //14739 USB 13-01-2002 Sun 1506 (TI)
16198.0	E05	Call 726 Count 215 335/68 ... USB 11-01-2002 Fri 1500
16223	X06	FAPSI. Selcall AM 17-01-2002 Thu 1525 (AB)
16227	M42	FAPSI in progress. Mega msg RTTY 17-01-2002 Thu 1537 (AB)
16270.0	E06	AM 23-01-2002 Wed 1500 (ASC)
16300	E03	18163 rpt several times USB 08-01-2002 Tue 0014 (JT)
16331.9	MX	Cluster beacon "S", Arkhangelsk CW 13-01-2002 Sun 1524 (AB)

17537	XPH	msg AM 05-01-2002 Sat 1250 (HFD)
18000	E15	Lots of problems with the tape. Baker Edward Charlie (BEC) and Peter Adam Rita (PAR) were heard USB 23-12-2001 Sun 1055 (ML3)
18415	M16	8BY. DGSE Ste Assise CW 10-01-2002 Thu 1600 (RGA)
18415.0	M16	893/354/449/475 CW 07-01-2002 Mon 1255 (BS3)
18416	M16	8BY. FGSE Ste Assise CW 12-01-2002 Sat 1542 (RGA)
18864	E03A	ip //21461 AM 23-01-2002 Wed 1110 (HFD)
18864	E04	84573//23461 USB 04-01-2002 Fri 1100 (TI)
18864	E04	60511//23461 USB 04-01-2002 Fri 1200 (TI)
18864	E04	41690//21866 USB 04-01-2002 Fri 1305 (TI)
18864	E04	//21866 USB 07-01-2002 Mon 0025 (TI)
18864	E04	Cherry Ripe //21866 id 47848 USB 07-01-2002 Mon 1300
18864	E04	//21866 USB 07-01-2002 Mon 1325 (TI)
18864	E04	84573 //24644 USB 07-01-2002 Mon 2200 (TI)
18864	E04	//21866 USB 08-01-2002 Tue 2331 (TI)
18864	E04	//21866 USB 09-01-2002 Wed 1322 (TI)
18864	E04	Cherry Ripe. Barely audible. Id 78504 (tentative) USB 24-01-2002 Thu 1100 (AB)
18864	E04	Cherry Ripe. Barely audible. Id 78060 (tentative) USB 24-01-2002 Thu 1200 (AB)
18864	E04	Cherry Ripe. Barely audible. Id 78060 (tentative) USB 24-01-2002 Thu 1200 (AB)
18864	E04	Cherry Ripe. Barely audible. Id 02169 (tentative) USB 24-01-2002 Thu 1300 (AB)
19715	E10	Israeli Intel. EZI2 AM 24-01-2002 Thu 0933 (AB)
19715.0	E10	EZI 49 XGJXB USB 11-01-2002 Fri 1400 (GG)
19858	M42	FAPSI. Msg on link 30088 RTTY 30-01-2002 Wed 1433
19884	E04	//21866 USB 07-01-2002 Mon 0111 (TI)
20047.9	MX	Cluster beacon "S", Arkhangelsk CW 13-01-2002 Sun 1524 (AB)
20939		Dep. of State Comms Moscow. Msg on link 30033 CROWD36 04-01-2002 Fri 0656 (LDO)
20946.0	M16	893/354/449/475 CW 07-01-2002 Mon 1255 (BS3)
21070.6	MX	Marker "V" CW (CG)
21461	E03A	ip //18864 AM 23-01-2002 Wed 1110 (HFD)
21866	E04	41690//18864 USB 04-01-2002 Fri 1305 (TI)
21866	E04	//18864 USB 07-01-2002 Mon 0025 (TI)
21866	E04	//19884 USB 07-01-2002 Mon 0110 (TI)
21866	E04	Cherry Ripe //18864 id 47848 USB 07-01-2002 Mon 1300
21866	E04	//18864 USB 07-01-2002 Mon 1325 (TI)
21866	E04	//18864 USB 08-01-2002 Tue 2331 (TI)
21866	E04	//18864 USB 09-01-2002 Wed 1322 (TI)
21866	E04	Cherry Ripe. Barely audible. Id 02169 (tentative) USB 24-01-2002 Thu 1300 (AB)
23461	E04	84573//18864 USB 04-01-2002 Fri 1102 (TI)
23461	E04	60511//18864 USB 04-01-2002 Fri 1200 (TI)
23461	E04	Cherry Ripe. Barely audible. Id 78504 (tentative) USB

		24-01-2002 Thu 1100 (AB)
23740	E10	Synth YL voice. Just caught "end of message, end of transmission" USB 17-01-2002 Thu 1418 (MB3)
23740.0	E10	EZI 49 XGJXB USB 11-01-2002 Fri 1400 (GG)
24644	E04	84573 //18864 USB 07-01-2002 Mon 2200 (TI)

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CG	Costas, Greece
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